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COMMUNICATION

FROM

F. I. A. BOOLE,

CITY INSPECTOR,

TO THE

COMMITTEE OF THE HOUSE

TO WHOM

THE METROPOLITAN HEALTH BILL

WAS REFERRED.

NEW YORK:  
EDMUND JONES & CO., PRINTERS TO THE CORPORATION,  
No. 26 JOHN STREET,  
1864.



*With Compliments*  
COMMUNICATION

FROM

*Lynes Ramsay  
Register of the House*

F. I. A. BOOLE,

CITY INSPECTOR,

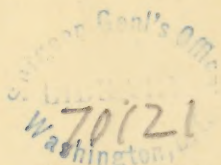
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## COMMUNICATION FROM THE CITY INSPECTOR.

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NEW YORK, February, 1864.

GENTLEMEN OF THE COMMITTEE—

Inasmuch as there is a bill before your Honorable Body to abolish the Department over which I have the honor to preside, and create instead thereof "A Metropolitan Health District," of which the city of New York shall constitute a part, to the latter, I, in connection with many of my fellow-citizens, do most seriously object, and for good and sufficient reasons. This is no new matter; it, or a similar proposition, has been before the Legislature, each session, for the last seven or eight years, except 1863. The fact, however, that it was not to accomplish any public good, nor called for by the citizens of the district, became so apparent before the close of the legislative term, in every instance they have been doomed to defeat. In some cases the opponents of the bill considered it necessary in order to counteract the numerous misrepresentations made to many members who have not had the opportunity of being able to judge for themselves, either as to the will of the people of the city of New York, its sanitary condition, or the mortality, that petitions of remonstrance were circulated among our best and most intelligent citizens and medical men, who signed it by hundreds. In 1862 one single paper or roll contained the names of over two hundred of the most eminent physicians in the city, ten of whom were Professors in our medical colleges. Many others could have been obtained—in fact, were anxious to enter their protest against such uncalled-for legislation. I assert fearlessly of truthful contradiction that neither the sanitary condition nor the mortality of the city of New York is such as to require any special legislation at this time, and also that the laws regulating the

public health are ample and sufficient for every emergency, as I will endeavor to show you hereafter. I would, however, mention in this connection that an amendment so as to empower the City Inspector and the *attachés* of the office, to arrest and punish by fine and imprisonment, one or both, all persons throwing garbage, &c., in the streets, would be commendable, indeed is necessary; but as to the gigantic legislation proposed here, it is wholly without any public necessity or demand, and is prompted purely by selfish motives, and could not be otherwise, should it become a law, than disastrous to the city and its citizens, for their ideas are wholly visionary and impracticable, and thousands upon thousands of dollars would be spent in useless experiments with various disinfectants, etc., etc.; for in all the bills that have been before the Legislature, and the various arguments presented to the committees and others, not one practical common-sense reform has been presented by them. By an examination of the measures calculated to promote the public health of the city of New York, it will be seen that a very large amount of it is mechanical, and that men skilled in the various trades are the persons calculated to carry them out. This bill, for example, contemplates appointing physicians as Health Wardens; this may all appear very well at first sight, but when the duties of these officers as prescribed by law are made known, a Doctor, in my judgment, is the very last person to attend to them. They, for example, are :

“ It shall be the duty of each Health Warden to report *immediately* all dead horses, and other animals, which may be found in the street or elsewhere \* \* \* to prevent the throwing of garbage, vegetables, decayed substances, offal, or filth of any kind into the streets, alleys, ways, side-walks, yards, sinks, or cess-pools, and to report such violation to this office. \* \* \* \* \*

It is the duty of the Health Wardens to cause all putrid and unsound beef, pork, fish, hides, or skins, and every putrid, offensive, unsound, or unwholesome substance found in the streets, or on any premises in this city, to be forthwith reported to this office, and when



directed, to see the same is promptly removed. It shall also be the duty of the Health Wardens to examine the *sink, privy, or cess-pool* of each and every house in their respective Wards, and to report every sink, privy, or cess-pool, the contents of which shall have *risen to within two feet of the surface*, and all such as may in their judgment require to be emptied; also to *examine and measure every newly-constructed sink in their respective Wards*, and to ascertain if the same is or shall have been constructed in accordance with the requirements of the law, and to report all violations relative to the constructing of the same. Also to report every instance which shall come to their knowledge of any person having caused any sink or privy to be only partially cleaned out, or the said sink covered over before cleaning the same, or causing the contents of any sink to be drawn off into any hole or place made to receive the same, or cause the same to be "tapped or bled," and the contents to be removed in any manner contrary to law—also the improper use of "tubs" being used for privy purposes, or of the contents of such tub being permitted to rise within three inches of the top. The Health Wardens will also be required to report and give their especial attention, and exercise constant supervision over all *Sunken Lots, Cow-stables, Hog-Pens, and the keeping of Swine, Slaughter-houses, Manure-heaps, Bone and Offal boiling, Horse-skinning, and all establishments and factories*, when the business of the same is or may become detrimental to the public health. Also, all damp, wet, or filthy cellars or yards, which may come under their observation. Also, all *tenement houses*, with the number of families, and of persons in each family, and the number of rooms *occupied by each family and the means of ventilation* of, and the condition of the premises as relating to cleanliness and health. All the places and premises above described, likely to become dangerous to the health of the occupants, or of the community, from neglect, should receive frequent visits from the Health Wardens."

If these obligations are in keeping with the occupation that requires a diploma from a medical college, then I am misinformed; and I think still that a butcher is a better judge of the quality of meat than a doctor, and that any person can take the dimensions of a privy and *measure*

*its contents* ; also know whether the law regarding the construction is violated. I cannot conceive how a physician can reconcile the dignity of the profession he has chosen, with the business of examining cow-stables, hog-pens, manure heaps, bone-boiling, horse-skinning, and the numerous similar duties (as is shown) he by law is required to perform. There are, however, occasionally certain cases where a medical opinion is required, and for your information I would most respectfully inform you that I have always one or two regularly educated physicians appointed as Health Warden, and detailed to attend to all these matters in the different parts of the city, where such advice is is deemed requisite ; and as to the present health laws, they are infinitely superior to those proposed in this bill ; and what evidence is there that by a change of men (for that, after all, is the real object) that the laws would be any better executed ? Are not the persons, or most of them now in office, quite as well informed in the matters with which they are dealing, as those that are by this bill to take them in charge ? I unhesitatingly affirm that many of them, by knowledge and energy, have established a reputation for efficiency that cannot be blotted out of sight by the darkest designs of the oldest and most unscrupulous of these office-seekers ; and so far as it relates to your humble servant, I have been a member of the Board of Health for eight years previous to entering upon my present duties, and a member of the Commissioners of Health feeling fully assured, from practical knowledge of the laws governing, and the duties devolving upon the department thus gained and founded upon experience, that the present laws, as above intimated, are “ ample, full, and explicit,” and believing that any alteration thereof can only be productive of mischievous and perhaps disastrous results ; and I will add, as to the medical gentlemen now connected with the Health Department, they can claim a perfect equality with those mentioned in bill as it regards medical attainments, and vastly superior in practical knowledge. This bill proposes to cast aside all this experience and to put men in office with no practical information whatever. One of them is a man of some reputation as a surgeon, but this does not by any means prove that he knows anything practical



of sanitary matters ; indeed, there is good grounds for a supposition that he has never given the subject even a casual examination, for no man can attend to a large private practice, visit hospitals, and discharge the duties of a professor, and have time to investigate matters of this character sufficiently to be of practical utility ; for the requisite information is not obtained without much labor and long experience, whereby to test the results of various theories, and particularly, when so much of it is not connected with his profession. The fact that a surgeon can amputate a limb with dexterity does not guarantee that he could suggest a remedy calculated to protect the public health ; and as for some of the other medical gentlemen named, and are to hold office under this bill, it is a well known fact that they have been office-seekers for years ; and further, one of them occupied the office of City Inspector, and you may search in vain for even a suggestion made for the protection of the public health ; and it will be remembered that it was at this period when so large a number of emigrants were landing in New York, many of whom were attacked with Typhus or Ship fever, and upon mingling with the community, of course, spread the contagion throughout the city, thus endangering the lives of thousands. There were two hundred and fifty or more deaths by Typhus fever, per annum, when he was in office ; this is more than double the number, in proportion to the population, there were in 1863, while the number of emigrants were less than one-half. So prevalent was this fever then, and a few years subsequent, that it became a matter of medical record. This being the case, ample opportunities were offered, indeed, it was his imperative duty, as one of the guardians of the public health, to inaugurate some method of protection. The only thing that is left upon record to show that he ever occupied the office is, his name upon the pay-rolls.

The Board of Health is composed of the Mayor and Common Council, and by an Act of the Legislature, passed April 10, 1850, conferred upon them full power and authority to make and pass all such by-laws and ordinances as they shall from time to time deem necessary and proper for the preservation of the public health in said city, and also for the abatement of all and every nuisance in said city,

and for compelling the owner or owners of the lot or lots upon which the same may be, to abate and remove the same. (Sec. 2, Title 3, Act 1850.) It further provides, that the expense of any necessary action to abate a nuisance shall constitute a lien upon the premises from which such nuisance shall be removed.

Thus it will be seen that the legislative power to preserve the public health and "abate and remove all and every nuisance in said city" is full and explicit, as above stated—*indeed, is unlimited, and as absolute as the decrees of an emperor.*

§ 5 It shall be the duty of the Board of Health—

1. To cause any avenue, street, alley or other passage whatever, to be fenced up, or otherwise inclosed, if they shall think the public safety requires it, and to adopt suitable measures for preventing all persons from going to any part of the city so inclosed.
2. To forbid and prevent all communication with the house or family infected with any contagious, infectious, or pestilential disease, except by means of physicians, nurses, or messengers, to carry the necessary advice, medicines, and provisions to the afflicted.
3. To adopt such measures for preventing all communication between any part of the city infected with a disease of a pestilential, infectious, or contagious character, and all other parts of the city, as shall be prompt and effectual.
4. To procure suitable places for the reception of persons sick of any pestilential, infectious, or contagious disease, and, in all cases where sick persons cannot otherwise be provided for, to procure for them proper medical and other attendance and provision.
5. To publish, from time to time, all such regulations as they shall have made, in such manner as to secure early and full publicity thereto.

6. To issue warrants to any constable or police officer in said city, to apprehend and to remove such person or persons as cannot otherwise be subjected to the regulations by them adopted; and whenever it shall be necessary so to do, to issue their warrant to the sheriff of the city and county of New York, to bring to their aid the power of the county; all which warrants shall be forthwith executed by the officers to whom the same shall be directed, who shall possess the like powers, and be subject to the like duties in the execution thereof, as if the same had been duly issued out of any court of record in this State.

§ 6. The Board of Health, or the Mayor and the Commissioners of Health, when they shall judge it necessary, may cause any cargo or part of cargo, or any matter or thing within the city, that may be putrid or otherwise dangerous to the public health, to be destroyed or removed; such removal, when ordered, shall be to the Quarantine ground, or such other place as the Board of Health shall direct; such removal or destruction shall be made at the expense of the owner or owners of the property so removed or destroyed, and the same may be recovered from such owner or owners, in an action at law, by the Mayor, Aldermen, and Commonalty of said city.

§ 7. The Board of Health may send to the Marine Hospital, or such other place as the Board of Health may direct, all aliens and other persons in the city, not residents thereof, who shall be sick of any infectious, pestilential, or contagious disease. The expense of the support of such aliens or other persons shall be defrayed by the Corporation of the city of New York, unless such aliens or other persons shall be entitled to be supported by the Commissioners of Emigration.

§ 8. The Board of Health shall have power to take possession of, and occupy for temporary hospitals, any building or buildings in the said city, during the prevalence of an epidemic, if in their judgment the same may be required, and shall pay for private property so taken, a just compensation for the same.



## ARTICLE I.

§ 12 THE BOARD OF HEALTH MAY, FROM TIME TO TIME, APPOINT SO MANY VISITING, HOSPITAL, AND CONSULTING PHYSICIANS, AS THEY MAY DEEM NECESSARY, DESIGNATE THEIR DUTIES, AND FIX THEIR COMPENSATION.

## ARTICLE II.

§ 10. It shall be the duty of each and every practicing physician in the city of New York—

1. Whenever required by the Board of Health, or the *Mayor and the Commissioners of Health of said city*, to report to the City Inspector of said city, at such times, in such forms as said Board may prescribe, the number of persons attacked with any pestilential, contagious, or infectious disease attended by such physician for the twenty-four hours next preceding, and the number of persons attended by such physician, who shall have died in said city during the twenty-four hours next preceding such report, of any such pestilential, contagious, or infectious disease.
2. To report in writing to the City Inspector, the Board of Health, or to the Mayor and the Commissioners of Health, every patient he shall have laboring under any pestilential, contagious, or infectious disease, and within twenty-four hours after he shall ascertain or suspect the nature of the disease.
3. To report to the City Inspector, *when required by the Board of Health*, the death of any of his patients who shall have died of disease, within twenty-four hours thereafter such death shall have occurred, and to state in such report specific name and type of such disease.

§ 9. It shall be the duty of the Mayor and the Commissioners of Health, from time to time, to communicate to the Board of Health all reports that shall be made to them, or either of them, under the provisions of this law; and it shall be the further duty of the Mayor and the Commissioners of Health, and each of them, so to communicate all information in their power that may the better enable the Board of Health to preserve the health of the city.

Should it be *at any time* necessary to employ physicians—be it for vaccination, or for any other purpose or duty—the power is given to the Board of Health. (See Section 12.)

#### ARTICLE IV.

§ 14. The Mayor of the city of New York may issue his proclamation, declaring any place, where there shall be reason to believe a pestilential, contagious, or infectious disease actually exists, to be an infected place, within the meaning of the Health Laws of the State

§ 15. Such proclamation shall fix the period when it shall cease to have effect ; but such period, if they shall judge the public health to require it, may, from time to time, be extended by the Board of Health, and notice of such extension shall be published in one or more of the newspapers of the city.

§ 16. After such proclamation shall have been issued, all vessels arriving in the port of New York from such infected place, shall be subject to a quarantine of at least thirty days, or until the period when such proclamation shall cease to have effect, as provided by the last preceding section, and shall, together with their officers, crews, passengers, and cargoes, be subject to all the provisions, regulations, and penalties of this Act in relation to vessels subject to quarantine.

§ 17. The Board of Health may, in their discretion, prohibit or regulate the internal intercourse, by land or water, between the city of New York and such infected place ; and may direct that all persons who shall come into the city of New York, contrary to their prohibitions or regulations, shall be apprehended and conveyed to the vessel or place whence they last came ; or, if sick, that they be conveyed to the Marine Hospital, or such other place as the Board of Health shall direct.

From the foregoing, it will be perceived that the Board of Health, which, being composed of the Mayor and Common Council, it is supposed has a full knowledge of the necessities of the public health, and has ample powers to meet any requirement to guard against the

spread of "any contagious, infectious, or pestilential disease," and "to prevent communication with any family or person afflicted with any such disease," "to cause any avenue, street, lane, alley, or other passage whatever, to be fenced up or otherwise inclosed," "to make regulations," &c., &c.

Certain powers are vested in the Commissioners of Health—a body constituted by the Act of 1850, Title 1, as follows :

"§ 19. The President of the Board of Aldermen, the President of the Board of Assistant Aldermen (Councilmen), the *Health Officer*, the *Resident Physician*, the *Health Commissioner*, and City Inspector, shall be the Commissioners of Health."

In the organization of this Board, it will be seen that both branches of the legislative authority are represented by their presiding officer—the *external* health authorities, by the Health Officer—the *internal*, by the Resident Physician and Health Commissioner, and the executive by the City Inspector.

"§ 21. The Resident Physician SHALL VISIT ALL SICK PERSONS reported to the Board, or to the Mayor and the Commissioners of Health, and shall perform such other PROFESSIONAL DUTIES as the Board of Health shall enjoin.

"§ 22. The Health Commissioner, under the direction of the Board of Health, shall *assist* the Resident Physician in the discharge of his official duties.

"23. In the discharge of their duties, the Mayor and the Commissioners of Health shall meet daily at the office of the Board of Health,\* during such part of the year and at such hours of the day as the said Board shall designate."

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\* See Minutes—they show not only that this part of the law is complied with, and that during the prevalence of the yellow fever, that Dr. Jones, the Health officer of Brooklyn, and Dr. Munday, Health officer of Richmond county, meet with the Commissioners of Health daily in the Mayor's office, so that of the nine gentlemen thus meeting in regard to public health, five were physicians.



From the foregoing, it will be noticed that three members of the Commissioners of Health are members of the medical profession—"graduates of a regularly chartered medical college,"—it is to be presumed. It is further to be noticed, that upon these officers devolves the duty of visiting all sick persons reported to the Board, or to the Mayor and the Commissioners of Health, and "*to perform such other professional duties as the Board of Health shall enjoin.*"

To meet any requirement for professional advice, on the part of the Board of Health, or of the City Inspector, it is provided,

“ § 5. IT SHALL BE THE DUTY OF THE MAYOR AND THE COMMISSIONERS OF HEALTH TO RENDER THEIR ADVICE TO THE BOARD OF HEALTH, AND TO THE CITY INSPECTOR OF SAID CITY, IN REGARD TO ALL MATTERS CONNECTED WITH THE PUBLIC HEALTH THEREOF.”

§ 11. Every person keeping a boarding or lodging-house in the city of New York shall, *whenever required by the Mayor and Commissioners of Health*, report in writing to the City Inspector, the Board of Health, or the Mayor and the Commissioners of Health, the name of every person who shall be sick in his house, within twelve hours after each case of sickness shall have occurred.

§ 12. Every master, owner, or consignee of a vessel, lying at a wharf, or in the harbor of the city of New York, shall make a like report, and within the same period, of the name of every sick person on board such vessel; and no person shall be removed therefrom without a written permit for that purpose from the Board of Health, or the Mayor, or one of the Commissioners of Health.

§ 13. It shall be the duty of each Commissioner of Health, and of each visiting, hospital, and consulting physician, to make an immediate report to the Board of Health, of the name of every practising physician by whom he shall have reason to believe the provisions of the tenth section of this title have been violated; and if such physi-

cian shall neglect or refuse to perform his duty, the Board shall suspend him from his office, and he shall, moreover, be liable to such further penalty as the said Board shall prescribe.

§ 27. Every practising physician, who shall refuse or neglect to perform the duties enjoined on him by the tenth section of this Title, shall be considered guilty of a misdemeanor; and shall also forfeit for each offense the sum of two hundred and fifty dollars, to be sued for and recovered by the Board of Health.

§ 28. Every keeper of a boarding or lodging-house, and every master, owner, or consignee of a vessel, who shall refuse or neglect to obey the orders and directions of the Mayor and the Commissioners of Health, as provided in the eleventh and twelfth sections of this Title, shall be considered guilty of a misdemeanor; and, on conviction, shall be fined for each offense in a sum not exceeding two hundred and fifty dollars, or be imprisoned for a term not exceeding six months.

Having thus shown how extensive the powers of the Legislative authority (as vested in the Mayor, Aldermen, and Commonalty) are, and also given extracts illustrative of the powers and duties of the Board of Health, and, in part, of the Commissioners of Health, inclusive, among the last, of the requirement, that *the Resident Physician and Health Commissioners shall visit the sick, and perform such other professional duties as the Board of Health shall enjoin, &c.*, and it being made further, “the duty of the Mayor and the Commissioners of Health to render their advice to the Board of Health,\* and to the City Inspector of said city, in regard to all matters connected with the public health thereof.”

“§ 27. There shall be an executive department, known as the ‘City Inspector’s Department,’ the chief officer of which shall be

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\* Are (in connection with their other duties) indeed the medical counsel to the legislative authorities, and as it will be seen, are in full possession of all the requisite knowledge, as all physicians in this city are under heavy penalties, should they omit to perform the duties enjoined upon them by section 10.

the 'City Inspector,' and shall have cognizance of all matters affecting the public health, *pursuant to the ordinances of the Common Council, and the lawful requiremet of the Commissioners of Health, and of the Board of Hcalth.* There shall be a bureau in the City Inspector's Department, to be called the '*Bureau of Sanitary Inspection and Street Cleaning,*' under the control of an officer named the 'Superintendent of Sanitary Inspection,' and who shall render such services as by ordinance may attach to said Bureau, in cleaning the streets and in the abatement and removal of nuisances, detrimental to the public health in said city. \* \* \*

### TITLE III.

#### ARTICLE I.

§ 1. The City Inspector of the city of New York shall have power,

" 1. To appoint by and with the advice and consent of the Board of Aldermen of said city, from time to time, all and so many Health Wardens and other officers as the Common Council or the Board of Health shall direct, to carry into effect the provisions of this Title, and the rules and regulations of the Board of Health, the laws and ordinances of the Common Council of said city, and the laws of this State, relating to the public health. Such Health Wardens and officers shall be subject to the supervision and control of the City Inspector.

" 2. To authorize such officers, at such times as he shall think fit, to enter into and examine in the day time all buildings, lots, and places of every description within the city, and to ascertain *and report to the Mayor and the Commissioners of Health* the condition thereof, so far as the public health may be affected thereby.

" 3. It shall be the duty of the City Inspector, on complaint being made to him, or whenever he shall deem any business, trade, or profession, carried on by any person or persons in the city of New York,



detrimental to the public health, to notify such person or persons to show cause, before the Board of Health, at a time and place to be specified in such notice, why the same should not be discontinued or removed, which notice shall be a notice of not less than three days (except in case of epidemic or pestilence, the Board of Health may, by general order, direct a shorter time, not less than twenty-four hours), and may be served by leaving the same at the place of business or residence of the parties to be affected thereby. Cause may be shown by affidavit, and the order of the Board of Health shall be final and conclusive thereon.

“4. The said City Inspector to give all such directions, and adopt all such measures for cleansing and purifying all such buildings, lots, and other places, and to do, or cause to be done, everything in relation thereto, *which, in the opinion of the Mayor and the Commissioners of Health of the city, shall be deemed necessary.* Every person who shall disobey any order of the City Inspector, or of the Board of Health, which shall have been personally served upon them, to abate or remove any nuisance in the manner and at the time described in such order, shall, on complaint of the City Inspector, or of the person serving such order, before the Mayor or any Police Justice of said city, be liable to arrest, and summary punishment by fine, not exceeding one thousand dollars, or imprisonment not exceeding one year, or by both such fine and imprisonment.

“5. To adopt such prompt measures, to prevent the spreading of any contagious, infectious, or pestilential disease, *as shall be directed by the Mayor and the Commissioners of Health*, when it shall appear to the Mayor and Commissioners of Health that any person within the city is afflicted with any disease of that character.” It would seem that these extracts should be enough to establish the executive nature of the duties of the City Inspector.

To this short sketch of a portion of the present health laws, I will quote in addition thereto a part of the duties of the County Clerk, in regard to the public health, by a perusal of which you will

perceive that not only is every precaution used as regards contagious and infectious diseases, but the transaction of legal matters, etc., etc :

*(Extract from Revised Statutes, 5th Ed., Vol. III, Title II.)*

DUTY OF COUNTY CLERK IN CITY AND COUNTY OF NEW YORK,  
WHEN INFECTIOUS OR CONTAGIOUS DISEASE MAY PREVAIL IN  
SAID CITY, IN RELATION TO KEEPING A REGISTRY OF NAMES  
OF PERSONS AND FIRMS, REMOVING FROM INFECTED DISTRICT.

§ 12. Whenever the Board of Health of the city of New York, or any other competent authority, shall, by public notice, designate any portion or district of said city as being the seat of any infectious or contagious disease, and declare communication with such portion or district dangerous, or shall prohibit such communication, it shall be the duty of the clerk of the said city and county, during the continuance of such disease in such district, to provide and keep in his office a book for the purpose of registering, in alphabetical order, the names, firms, and places of business of any inhabitant of the city, who shall desire such registry to be made. (*Laws 1826, p. 12, § 1 and 2.*)

§ 13. It shall be the duty of all persons and firms usually resident or doing business within such infected district, to register in the book so provided by the said clerk, their names or firms, with the place or places out of such infected district, but within the county of New York, to which they may have removed the transaction of their business, or to which they may desire any notices to be sent or served, or any notes, drafts or bills to be presented for acceptance or for payment. The sum of twenty-five cents may be claimed and received by the said clerk for every such registry ; but the book in which the same shall be entered, shall be at all times, during office hours, open to public examination, free of all charges. (*Same.*)

§ 14. During the continuance of any such disease in such infected district, all drafts, notes, and bills, which, by law, are required to be presented for acceptance or for payment, may be presented for such

purpose at the place so designated in such registry ; and all notices of non-acceptance, and of non-payment of any note, draft, or bill, or of protest for such non-acceptance or non-payment, may be served by leaving the same at the place so designated. (*Same.*)

§ 15. In case any person or firm, usually resident or doing business within such infected district, shall neglect to make and cause to be entered in the book so provided, the registry herein required, all notes, drafts, or bills, which by law are required to be presented to such person or firm, for acceptance or for payment, may be presented to the said clerk of the city and county of New York, during the continuance of such disease, at any time during office hours ; and demand of acceptance or payment thereof may be made of the said clerk, to the same purpose and with the same effect as if the same had been presented, and acceptance or payment demanded, of such person or firm, at their usual place of doing business. (*Same.*)

§ 16. In case of the omission to make the registry herein required, all notices of the non-acceptance or non-payment of any note, draft, or bill, or of protest of such non-acceptance or non-payment, may be served on any person or firm usually resident or doing business within such infected district, by leaving the same at the post-office for the said city of New York, which service shall be as valid and effectual as if the notices had been served personally on such person, or one of such firm, at his or their usual place of doing business. (*Same.*)

§ 17. Whenever proclamation shall be made, by the Board of Health or other proper authority of the city of New York, that an infectious or contagious disease in any such infected district has subsided, it shall be deemed to have subsided, for all the purposes contemplated in this title. (*Same.*)

Now, as to the Metropolitan or territorial feature of the bill, I would remark that there are now in existence general laws that are ample for every emergency, and further, that this bill is antagonistic to the great principle of self-government, as founded upon the doctrine that every state, etc., shall have the privilege of regulating their



own local matters as seems best to themselves. If Brooklyn and Staten Island, one or both, desire to have their health-laws amended or altered in any way, let them do so, and attend to their own affairs. New York, I feel confident in saying, can, if left to its own choice.

The law, as it regards the quarantine, holds the same relation to Brooklyn that it does to New York ; the same safeguards are thrown around its commerce, as to landing and communicating with vessels, etc. ; the protection applies equally to both and all territory bordering on the Bay ; and further, there is a law regulating the erection or carrying on any business detrimental to the health on boundary lines, not only in those counties, but even Westchester is protected, as is seen by the following :

## LAWS OF 1851—CHAPTER 415.

### IN RELATION TO NUISANCES ON OR NEAR THE BOUNDARY LINES OF THE COUNTIES OF NEW YORK, WESTCHESTER, AND QUEENS.

SECTION 1. Whenever any nuisance shall be erected or continued, on or near the boundary lines of the counties of New York, Westchester, and Queens, the same, and the persons by whom such nuisance shall have been erected or continued, may be indicted in either county injuriously affected thereby ; and thereupon the same proceedings shall be had and taken, and the sentence of the court may be enforced in the same manner as if the said nuisance was situated within the county in which the indictment was found.

SEC. The record of any conviction under this act shall be filed in the Clerk's office of the county in which such nuisances is located ; and thereupon process shall be issued to the sheriff of such county to abate such nuisance in the same manner as if the conviction was had in the county in which the record was filed (*a*).

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(*a*.) See U. S. 5th edition, vol. iii. page 1019, Title 4, Art. 2.

In addition to this there were a Sanitary Police district created by a law, passed April 10th, 1860, which extends over these counties. This Sanitary Police Company or companies, have a captain or sergeant, who assigns to each company such special duties, by the rules and regulations as may be publicly advantageous, and are empowered to "visit and make inspection of all ferry-boats, manufactories, slaughter houses, tenant houses, and edifices suspected of, or charged with being unsafe, and to take all necessary legal measures for promoting the security of life or health. \* \* \* \* \*

If they find anything prejudicial to the public health, their duty is to report it, and are empowered at once to remove it, section 70 of this law is as follows :

"The Board of Police shall, at all times, cause the ordinances of the cities of New York and Brooklyn, not in conflict with the provisions of this Act, to be properly enforced ; (a) and it shall be the duty of said Board, at all times, whenever consistent with the rules and regulations of the Board, and with the requirements of this Act, to furnish all information desired.

I feel justified in presuming that you will agree with me in saying, that if there were no other laws than those quoted, ample protection would be afforded ; but you have not been presented with one-half, and for a more full and complete knowledge of the same you are most respectfully referred to the "Statutes" as well as the various ordinances created from time to time by the Common Council.

And as to the mortality, it is no greater than is common in large cities ; indeed it is much less than Paris, and about the same as London. As for the cities of this country, the vast difference in the population, the incorrectness of the returns of death in them all (except New York and the small city of Providence), renders a cor-

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(a) See §§ 29, 30 of this Act.

rect comparison impossible. Again, there is not a city in the world where so many immigrants land as in New York, nor such an immense floating population. I see some of the public prints estimate that over a quarter of a million of persons have come to reside in the city of New York since the commencement of the war; as a proof of this, it is next to impossible to get even a part of a house to hire at any price, and according to the reports of the Department of Unsafe Buildings, several thousand new houses have been built during that period, all of which are full to overflowing; the same is the case with all the hotels and boarding-houses. Now, is it not reasonable to expect that the number of deaths would be increased; yet, if you will examine the following tables you will perceive that there are not a corresponding increase. The excess in 1863 is almost totally due to the extreme hot weather of last summer, the riot, and the thousands of sick and wounded soldiers brought here from all parts of the country, many of them in a dying condition. As a proof of the latter, almost the total increase in the mortality were adults, as will be seen by the following tables. With these exceptions, there are but a slight difference in the number of deaths for several years. And the vast increase of our population must, in making comparisons, always be considered. In 1855 the State census returns were 627,000, and by the United States, in 1860, 814,619. All agree that at the present time there are 1,000,000 or more persons residing in the city of New York; that is, 400,000 more than in 1855. Surely, there must be a difference in the mortality. There has been an increase in all the cities throughout the country; this excess therefore in 1863 is not confined to New York alone. And inasmuch as the advocates of these bills have heretofore persisted in comparing the mortality of this city with Providence, I will make a few extracts from the Health Officer's Report of that city for 1863. He says, "The number of deaths in Providence, in 1863, was onethousand two hundred and fifteen, an increase of nearly thirty-three per cent. over 1862. The deaths in 1863 were more than in any year since 1854. In December there were one hundred and nineteen deaths, thirty-two more than in December, 1862, and forty-two more than the annual average for seven years;



also, in January, 1864, the increase over the annual average for seven years, was thirty-four.

The following statistics are authentic, and entitled to implicit confidence; they were prepared by a physician who was appointed to take charge of the Bureau of Records and Statistics solely for his professional attainments, upon the recommendation and request of medical men of the first standing in the city, twelve of whom are Professors. And as a proof of the additional importance attached to the mortuary statistics of New York, for the explicit and correct manner in which they have been arranged and classified since they have been under the charge of Dr. Ramsay, we are in the receipt of requests almost daily from authors and statisticians in all parts of the country for copies of the annual report, who regard them as invaluable and vastly superior to anything of the same character either in Europe or America. I mention this, in order to remove, should there be any doubt in your mind, in regard to their authenticity, as statistics have heretofore been presented that conflicted with those that were correct.

#### AGE.

There were the deaths of 13,266 males, and 11,930 females recorded, of whom 10,596 were adults, and 14,600 children—that is, persons under twenty years of age.

The following table is a comparison of the deaths of adults and children, from 1850 to the present time.

A TABLE, showing the total DEATHS from 1850 to 1863, both inclusive, also the number of ADULTS and CHILDREN who died in the same period.

| YEAR.       | DEATHS. | ADULTS. | CHILDREN. | CHILDREN<br>UNDER 1<br>YEAR. |
|-------------|---------|---------|-----------|------------------------------|
| 1851.....   | 21,748  | 7,775   | 13,973    | 6,891                        |
| 1852.....   | 20,296  | 8,002   | 12,294    | 6,351                        |
| 1853.....   | 21,137  | 8,124   | 13,003    | 6,661                        |
| 1854* ..... | 26,953  | 10,681  | *16,271   | 7,551                        |
| 1855.....   | 21,478  | 7,289   | 14,189    | 6,771                        |
| 1856.....   | 20,102  | 6,769   | 14,889    | 6,437                        |
| 1857.....   | 21,775  | 7,558   | 14,217    | 6,905                        |
| 1858.....   | 22,196  | 8,091   | 14,105    | 7,109                        |
| 1859.....   | 21,645  | 8,182   | 13,463    | 6,599                        |
| 1860.....   | 22,710  | 8,752   | 13,958    | 6,087                        |
| 1861.....   | 22,117  | 8,503   | 13,614    | 6,189                        |
| 1862.....   | 21,244  | 8,618   | 12,626    | 5,720                        |
| 1863.....   | 25,196  | 10,596  | 14,600    | 6,118                        |

This table shows a very large diminution in the mortality of children in 1863, when compared with 1850, *i. e.*, when the vast increase of population is considered, it being twice as great in 1863 as then, yet the number of deaths is nearly the same in the two periods, and but little variation in any year except the Cholera year.

A TABLE, showing the POPULATION in each Year, from 1849 to 1864 ; the Increase per annum ; also the number of Deaths in each year, and the number that would have died, had the Mortality increased in the same ratio as the Population, in the city of New York.

| YEAR.     | POPULATION IN EACH YEAR.             | INCREASE POPULATION PER YEAR. | DEATHS PER YEAR. | NUMBER OF DEATHS THERE WOULD HAVE BEEN HAD THE MORTALITY INCREASED WITH THE POPULATION. |
|-----------|--------------------------------------|-------------------------------|------------------|-----------------------------------------------------------------------------------------|
| 1850..... | 515,550                              | .....                         | .....            | .....                                                                                   |
| 1851..... | 536,400                              | 20,850                        | 21,748           | .....                                                                                   |
| 1852..... | 558,412                              | 21,712                        | 20,296           | 22,637                                                                                  |
| 1853..... | 581,018                              | 22,606                        | 21,137           | 23,548                                                                                  |
| 1854..... | 604,614                              | 23,596                        | 26,953           | 24,504                                                                                  |
| 1855..... | 627,060                              | 24,386                        | 21,478           | 25,493                                                                                  |
| 1856..... | 656,654                              | 27,654                        | 20,102           | 26,613                                                                                  |
| 1857..... | <sup>63</sup><br><del>638</del> ,404 | 31,750                        | 21,775           | 27,871                                                                                  |
| 1858..... | 724,808                              | 36,404                        | 22,196           | 29,346                                                                                  |
| 1859..... | 766,392                              | 41,584                        | 21,645           | 31,031                                                                                  |
| 1860..... | 813,699                              | 47,885                        | 22,710           | 32,900                                                                                  |
| 1861..... | 866,280                              | 52,000                        | 22,117           | 34,227                                                                                  |
| 1862..... | 923,200                              | 57,000                        | 21,244           | 35,542                                                                                  |
| 1863..... | 1,000,000                            | 76,800                        | 25,196           | 38,560                                                                                  |



*MORTALITY of Adults, and Children under One Year of age, in the  
Months of July and August, from 1855 to 1864.*

| MONTHS.      | YEAR. | ADULTS. | CHILDREN<br>UNDER 1<br>YEAR. |
|--------------|-------|---------|------------------------------|
| July .....   | 1856  | 603     | 1,128                        |
| “ .....      | 1857  | 576     | 884                          |
| “ .....      | 1858  | 605     | 1,302                        |
| “ .....      | 1859  | 682     | 1,047                        |
| “ .....      | 1860  | 703     | 840                          |
| “ .....      | 1861  | 679     | 936                          |
| “ .....      | 1862  | 727     | 880                          |
| “ .....      | 1863  | 868     | 959                          |
| August ..... | 1856  | 572     | 1,173                        |
| “ .....      | 1857  | 672     | 1,270                        |
| “ .....      | 1858  | 679     | 1,262                        |
| “ .....      | 1859  | 759     | 1,037                        |
| “ .....      | 1860  | 783     | 840                          |
| “ .....      | 1861  | 751     | 903                          |
| “ .....      | 1862  | 852     | 869                          |
| “ .....      | 1863  | 1,263   | 1,029                        |

In the above, and four or five of the following tables, I have compared the infantile mortality of 1863 with the most healthy year (1856) since 1850, and it will be seen that the *number* of deaths were actually much less in 1863, though a difference in the population of at least 350,000. This pleasing intelligence should be gratifying to all persons having charge of the public health. Such diminution is not to be found in any city in the world.

## DEATHS INFLUENCED BY SEASON.

A TABLE, showing the Mortality of Adults and Children in the Months of June, July, and August, from 1857 to 1863.

| MONTHS.      | YEAR. | TOTAL DEATHS. | ADULTS. | CHILDREN. |
|--------------|-------|---------------|---------|-----------|
| June .....   | 1858  | 1,655         | 670     | 985       |
| “ .....      | 1859  | 1,515         | 551     | 964       |
| “ .....      | 1860  | 1,463         | 617     | 846       |
| “ .....      | 1861  | 1,695         | 663     | 1,032     |
| “ .....      | 1862  | 1,493         | 663     | 830       |
| “ .....      | 1863  | 1,752         | 769     | 1,019     |
| July .....   | 1858  | 2,878         | 605     | 1,987     |
| “ .....      | 1859  | 2,418         | 682     | 1,736     |
| “ .....      | 1860  | 2,096         | 665     | 1,411     |
| “ .....      | 1861  | 2,345         | 679     | 1,666     |
| “ .....      | 1862  | 2,274         | 727     | 1,547     |
| “ .....      | 1863  | 2,682         | 868     | 1,814     |
| August ..... | 1858  | 2,878         | 679     | 2,199     |
| “ .....      | 1859  | 2,754         | 759     | 1,995     |
| “ .....      | 1860  | 2,413         | 756     | 1,657     |
| “ .....      | 1861  | 2,444         | 751     | 1,693     |
| “ .....      | 1862  | 2,527         | 852     | 1,675     |
| “ .....      | 1863  | 3,417         | 1,263   | 2,154     |



## DEATHS INFLUENCED BY SEASON.

A TABLE, showing the Mortality of Adults and Children in the Months of June, July, and August, from 1857 to 1864.

| MONTHS.          | YEAR. | TOTAL DEATHS. | ADULTS. | CHILDREN. | CHILDREN UNDER 1 YEAR. |
|------------------|-------|---------------|---------|-----------|------------------------|
| June . . . . .   | 1858  | 1,655         | 670     | 985       | 575                    |
| “ . . . . .      | 1859  | 1,515         | 551     | 964       | 505                    |
| “ . . . . .      | 1860  | 1,463         | 617     | 846       | 363                    |
| “ . . . . .      | 1861  | 1,695         | 663     | 1,032     | 445                    |
| “ . . . . .      | 1862  | 1,493         | 663     | 830       | 376                    |
| “ . . . . .      | 1863  | 1,752         | 769     | 983       | 407                    |
| July . . . . .   | 1858  | 2,878         | 605     | 1,987     | 1,302                  |
| “ . . . . .      | 1859  | 2,418         | 682     | 1,736     | 1,047                  |
| “ . . . . .      | 1860  | 2,096         | 665     | 1,411     | 815                    |
| “ . . . . .      | 1861  | 2,345         | 679     | 1,666     | 936                    |
| “ . . . . .      | 1862  | 2,274         | 727     | 1,547     | 880                    |
| “ . . . . .      | 1863  | 2,672         | 868     | 1,814     | 959                    |
| August . . . . . | 1858  | 2,878         | 679     | 2,199     | 1,264                  |
| “ . . . . .      | 1859  | 2,754         | 759     | 1,995     | 1,037                  |
| “ . . . . .      | 1890  | 2,413         | 756     | 1,657     | 888                    |
| “ . . . . .      | 1861  | 2,444         | 751     | 1,693     | 903                    |
| “ . . . . .      | 1862  | 2,527         | 852     | 1,675     | 869                    |
| “ . . . . .      | 1863  | 3,417         | 1,263   | 2,154     | 1,029                  |

A TABLE, showing the *Mortality in the Summer Months, in each year, from 1850 to 1864.*

| MONTHS.          | 1851 | 1852 | 1853 | 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| June . . . . .   | 1717 | 1790 | 1906 | 1931 | 1553 | 1489 | 1462 | 1655 | 1515 | 1463 | 1695 | 1493 | 1752 |
| July . . . . .   | 2521 | 2470 | 2333 | 4124 | 2515 | 2413 | 2021 | 2592 | 2418 | 2096 | 2345 | 2274 | 2682 |
| August . . . . . | 2155 | 2260 | 2814 | 4187 | 2614 | 2633 | 2821 | 2878 | 2754 | 2413 | 2244 | 2527 | 3417 |

DEATHS BY CHOLERA INFANTUM IN THE SUMMER MONTHS, IN EACH YEAR, FROM 1857 TO 1864.

| MONTHS.          | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 |
|------------------|------|------|------|------|------|------|
| June . . . . .   | 36   | 132  | 51   | 39   | 42   | 48   |
| July . . . . .   | 534  | 502  | 369  | 399  | 409  | 546  |
| August . . . . . | 665  | 461  | 478  | 487  | 528  | 694  |
| TOTAL . . . . .  | 1235 | 1095 | 898  | 925  | 979  | 1288 |

DEATHS BY DIARRHŒA IN THE SUMMER MONTHS IN EACH YEAR, FROM 1854 TO 1864.

| MONTHS.          | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 |
|------------------|------|------|------|------|------|------|------|------|------|
| June . . . . .   | 25   | 30   | 15   | 31   | 28   | 22   | 21   | 43   | 36   |
| July . . . . .   | 141  | 114  | 78   | 131  | 119  | 78   | 96   | 78   | 133  |
| August . . . . . | 219  | 139  | 157  | 148  | 174  | 108  | 122  | 117  | 200  |
| TOTAL . . . . .  | 985  | 283  | 250  | 310  | 321  | 208  | 239  | 238  | 369  |

DEATHS IN JUNE, of each year, from 1853 to 1864, by the following Diseases:

|                           | 1854  | 1855  | 1856  | 1857  | 1858  | 1859  | 1860  | 1861  | 1862  | 1863  |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| TOTALS.....               | 1931  | 1553  | 1487  | 1462  | 1655  | 1515  | 1463  | 1695  | 1493  | 1752  |
| Males.....                | 1063  | 809   | 792   | 804   | 881   | 852   | 773   | 918   | 846   | 922   |
| Females.....              | 868   | 744   | 695   | 658   | 774   | 663   | 690   | 777   | 647   | 830   |
| Adults.....               | 810   | 484   | 503   | 492   | 670   | 551   | 964   | 661   | 663   | 769   |
| Children.....             | 1121  | 1069  | 984   | 970   | 985   | 964   | 846   | 1034  | 830   | 983   |
| Children under 1 year...  | 598   | 524   | 556   | 538   | 575   | 505   | 358   | 465   | 376   | 407   |
| Apoplexy.....             | 33    | 13    | 20    | 13    | 19    | 22    | 1     | 22    | 27    | 24    |
| Bronchitis.....           | 16    | 22    | 13    | 10    | 21    | 19    | 20    | 28    | 13    | 26    |
| Cancer.....               | 12    | 22    | 20    | 18    | 13    | 19    | 20    | 19    | 11    | 17    |
| Consumption.....          | 238   | 154   | 160   | 184   | 228   | 252   | 215   | 238   | 234   | 260   |
| Croup.....                | 38    | 39    | 32    | 56    | 16    | 32    | 28    | 10    | 30    | 15    |
| Cholera Infantum.....     | 58    | 36    | 43    | 17    | 36    | 502   | 51    | 39    | 42    | 48    |
| Convulsions, Infantile... | 156   | 144   | 109   | 102   | 152   | 221   | 106   | 117   | 98    | 168   |
| Diarrhoea.....            | 53    | 25    | 30    | 15    | 31    | 119   | 22    | 21    | 43    | 36    |
| Dropsy of Head.....       | 73    | 71    | 67    | 62    | 80    | 91    | 50    | 67    | 51    | 57    |
| Drowned.....              | 30    | 20    | 16    | 28    | 21    | 22    | 29    | 28    | 18    | 31    |
| Delirium Tremens.....     | 15    | 6     | 4     | 4     | 11    | 8     | 7     | 11    | 5     | 8     |
| Dysentery.....            | 27    | 28    | 15    | 10    | 11    | 56    | 6     | 10    | 9     | 15    |
| Erysipelas.....           | 9     | 13    | 9     | 11    | 11    | 9     | 2     | 12    | 6     | 7     |
| Marasmus.....             | 113   | 76    | 76    | 95    | 91    | 195   | 105   | 96    | 85    | 96    |
| Measles.....              | 27    | 40    | 46    | 16    | 16    | 45    | 10    | 83    | 8     | 27    |
| Puerperal Fever.....      | 5     | 8     | 16    | 10    | 14    | 11    | 13    | 13    | 8     | 7     |
| “ Convulsions ..          | 1     | ..... | 1     | 2     | 1     | ..... | ..... | ..... | ..... | 1     |
| Scarlet Fever.....        | 22    | 90    | 73    | 85    | 57    | 54    | 152   | 114   | 63    | 87    |
| Scrofula.....             | 20    | 13    | 5     | 11    | 12    | 13    | 7     | 8     | 4     | 5     |
| Small-pox.....            | 23    | 10    | 38    | 34    | 53    | 2     | 18    | 78    | 15    | 13    |
| Suicide.....              | 5     | 8     | 4     | 8     | 10    | 3     | 7     | 4     | 3     | 4     |
| Heart, Disease of.....    | 13    | 20    | 17    | 16    | 38    | 46    | 33    | 15    | 21    | 23    |
| Whooping Cough.....       | 18    | 16    | 8     | 10    | 15    | 25    | 12    | 10    | 10    | 7     |
| Hip, Disease of.....      | ..... | ..... | ..... | 1     | ..... | ..... | 1     | ..... | 2     | ..... |
| Inflammation of Bowels .. | 26    | 24    | 25    | 24    | 21    | 42    | 24    | 29    | 44    | 38    |
| “ “ Brain...              | 28    | 34    | 29    | 39    | 31    | 43    | 36    | 43    | 34    | 55    |
| “ “ Lungs..               | 62    | 60    | 47    | 52    | 66    | 59    | 66    | 92    | 68    | 78    |
| “ “ Stomach               | 6     | 5     | 7     | 3     | 5     | 14    | 5     | 14    | 15    | 11    |
| “ “ Throat..              | 6     | 3     | 3     | 4     | 3     | 5     | 2     | 5     | 3     | 5     |
| Insanity.....             | 1     | 1     | 1     | ..... | 3     | 1     | ..... | ..... | 1     | 1     |
| Old Age.....              | 10    | 18    | 14    | 7     | 15    | 17    | 11    | 17    | 19    | 22    |
| Typhoid Fever.....        | 10    | 7     | 12    | 8     | 12    | 18    | 16    | 13    | 48    | 33    |
| Typhus Fever.....         | 29    | 24    | 12    | 13    | 2     | 8     | 4     | 16    | 13    | 46    |

DEATHS IN JULY, of each year, from 1853 to 1864, by the following Diseases:

|                          | 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 |
|--------------------------|------|------|------|------|------|------|------|------|------|------|
| TOTALS.....              | 4124 | 2515 | 2413 | 2021 | 2592 | 2418 | 2076 | 2345 | 2274 | 2682 |
| Males.....               | 2229 | 1380 | 1315 | 1114 | 1374 | 1347 | 1115 | 1223 | 1205 | 1456 |
| Females.....             | 1895 | 1135 | 1098 | 907  | 1218 | 1071 | 961  | 1122 | 1069 | 1226 |
| Adults.....              | 1610 | 614  | 1017 | 576  | 605  | 682  | 665  | 679  | 724  | 868  |
| Children.....            | 2514 | 1901 | 1396 | 1445 | 1987 | 1736 | 1411 | 1666 | 1550 | 1814 |
| Children under 1 year... | 1401 | 1204 | 714  | 884  | 1302 | 1047 | 815  | 936  | 880  | 959  |
| Apoplexy.....            | 29   | 23   | 17   | 16   | 8    | 22   | 28   | 28   | 10   | 28   |
| Bronchitis.....          | 15   | 17   | 10   | 17   | 26   | 19   | 17   | 23   | 21   | 12   |
| Cancer.....              | 19   | 15   | 15   | 18   | 21   | 19   | 10   | 10   | 18   | 15   |
| Consumption.....         | 239  | 202  | 162  | 190  | 248  | 252  | 241  | 211  | 272  | 248  |
| Croup.....               | 34   | 27   | 28   | 36   | 18   | 32   | 24   | 19   | 26   | 26   |
| Cholera Infantum.....    | 550  | 416  | 483  | 225  | 534  | 502  | 369  | 399  | 409  | 546  |
| Convulsions, Infantile.. | 356  | 277  | 173  | 150  | 230  | 221  | 173  | 154  | 172  | 199  |
| Diarrhoea.....           | 200  | 141  | 114  | 78   | 131  | 119  | 78   | 96   | 78   | 133  |
| Dropsy of Head.....      | 149  | 110  | 81   | 86   | 109  | 91   | 76   | 101  | 88   | 92   |
| Drowned.....             | 25   | 28   | 29   | 21   | 31   | 22   | 24   | 30   | 31   | 50   |
| Delirium Tremens.....    | 17   | 10   | 6    | 9    | 10   | 8    | 17   | 10   | 11   | 16   |
| Dysentery.....           | 157  | 81   | 65   | 30   | 51   | 56   | 30   | 42   | 19   | 43   |
| Erysipelas.....          | 11   | 3    | 7    | 8    | 11   | 9    | 6    | 10   | 7    | 7    |
| Marasmus.....            | 207  | 174  | 155  | 162  | 206  | 195  | 173  | 190  | 161  | 174  |
| Measles.....             | 40   | 32   | 64   | 32   | 16   | 45   | 18   | 50   | 16   | 32   |
| Puerperal Fever.....     | 12   | 7    | 9    | 6    | 13   | 11   | 4    | 10   | 7    | 3    |
| Convulsions..            | 4    | 3    | 5    | 4    | 1    |      |      |      |      |      |
| Scarlet Fever.....       | 27   | 69   | 73   | 69   | 27   | 54   | 89   | 88   | 67   | 67   |
| Scrofula.....            | 24   | 7    | 11   | 13   | 16   | 13   | 10   | 9    | 5    | 3    |
| Small-pox.....           | 14   | 14   | 23   | 15   | 22   | 2    | 21   | 73   | 13   | 6    |
| Suicide.....             | 12   | 9    | 8    | 2    | 7    | 3    | 4    | 4    | 4    | 4    |
| Heart, Disease of.....   | 19   | 18   | 21   | 24   | 29   | 46   | 23   | 21   | 21   | 29   |
| Hooping Cough.....       | 26   | 31   | 18   | 15   | 25   | 25   | 12   | 9    | 18   | 5    |
| Hip, Disease of.....     | 6    | 5    | 2    | 3    |      |      |      |      | 1    |      |
| Inflammation of Bowels.. | 38   | 37   | 39   | 24   | 35   | 42   | 33   | 55   | 63   | 54   |
| "    " Brain...          | 65   | 44   | 48   | 47   | 58   | 43   | 40   | 60   | 51   | 72   |
| "    " Lungs...          | 47   | 28   | 26   | 51   | 58   | 59   | 59   | 77   | 60   | 79   |
| "    " Stomach           | 12   | 9    | 14   | 13   | 16   | 14   | 19   | 11   | 19   | 10   |
| "    " Throat..          | 8    | 5    | 1    | 3    | 1    | 5    | 7    | 14   | 14   | 2    |
| Insanity.....            | 3    | 2    |      | 1    | 1    | 1    | 2    |      | 1    | 1    |
| Old Age.....             | 16   | 15   | 15   | 20   | 8    | 17   | 16   | 16   | 22   | 30   |
| Typhoid Fever.....       | 9    | 7    | 7    | 8    | 9    | 13   | 13   | 15   | 49   | 56   |
| Typhus Fever.....        | 40   | 8    | 19   | 6    | 11   | 8    | 11   | 16   | 7    | 41   |



DEATHS IN AUGUST, of each year, from 1853 to 1864, by the following Diseases:

|                             | 1854 | 1855  | 1856 | 1857  | 1858 | 1859  | 1860  | 1861  | 1862  | 1863  |
|-----------------------------|------|-------|------|-------|------|-------|-------|-------|-------|-------|
| TOTALS.....                 | 4187 | 2614  | 2630 | 2821  | 2878 | 2754  | 2418  | 2444  | 2527  | 3417  |
| Males.....                  | 2175 | 1379  | 1355 | 1539  | 1443 | 1444  | 1272  | 1314  | 1324  | 1800  |
| Females.....                | 2012 | 1235  | 1275 | 1282  | 1435 | 1310  | 1141  | 1130  | 1203  | 1617  |
| Adults.....                 | 1555 | 554   | 563  | 672   | 779  | 759   | 756   | 751   | 852   | 1273  |
| Children.....               | 2632 | 2060  | 2067 | 2149  | 2099 | 1995  | 1657  | 1693  | 1675  | 2144  |
| Children under 1 year...    | 1318 | 1168  | 1173 | 1270  | 1262 | 1037  | 888   | 903   | 869   | 1029  |
| Apoplexy.....               | 21   | 15    | 9    | 23    | 20   | 27    | 22    | 17    | 24    | 46    |
| Bronchitis.....             | 11   | 12    | 12   | 23    | 13   | 11    | 11    | 17    | 36    | 19    |
| Cancer.....                 | 11   | 14    | 15   | 16    | 19   | 19    | 15    | 12    | 25    | 26    |
| Consumption.....            | 216  | 202   | 196  | 230   | 229  | 308   | 271   | 249   | 270   | 310   |
| Croup.....                  | 36   | 21    | 19   | 24    | 18   | 34    | 22    | 21    | 36    | 19    |
| Cholera Infantum.....       | 597  | 451   | 588  | 623   | 665  | 461   | 478   | 487   | 528   | 694   |
| Convulsions, Infantile..... | 239  | 184   | 149  | 194   | 106  | 189   | 185   | 144   | 183   | 219   |
| Diarrhœa.....               | 286  | 219   | 139  | 157   | 148  | 174   | 108   | 122   | 117   | 200   |
| Dropsy of Head.....         | 132  | 100   | 112  | 101   | 113  | 109   | 97    | 91    | 98    | 91    |
| Drowned.....                | 36   | 28    | 24   | 30    | 22   | 20    | 23    | 31    | 25    | 40    |
| Delirium Tremens.....       | 15   | 5     | 10   | 8     | 6    | 11    | 15    | 4     | 5     | 10    |
| Dysentery.....              | 205  | 146   | 117  | 78    | 93   | 53    | 43    | 61    | 41    | 83    |
| Erysipelas.....             | 9    | 8     | 4    | 7     | 4    | 11    | 5     | 8     | 4     | 9     |
| Marasmus.....               | 289  | 267   | 271  | 293   | 286  | 290   | 205   | 267   | 204   | 247   |
| Measles.....                | 30   | 29    | 36   | 43    | 19   | 60    | 21    | 32    | 19    | 21    |
| Puerperal Fever.....        | 6    | 3     | 6    | 9     | 9    | 7     | 17    | 12    | 8     | 5     |
| “ Convulsions.....          | 5    | 3     | 1    | 1     | 1    | 1     | ..... | ..... | ..... | 2     |
| Scarlet Fever.....          | 12   | 41    | 42   | 42    | 20   | 59    | 88    | 56    | 27    | 42    |
| Scrofula.....               | 16   | 14    | 19   | 12    | 23   | 11    | 7     | 5     | 8     | 2     |
| Small-pox.....              | 16   | 5     | 28   | 11    | 23   | 2     | 32    | 42    | 10    | 7     |
| Suicide.....                | 1    | 3     | 3    | 5     | 8    | 5     | 7     | 2     | 6     | 4     |
| Heart, Disease of.....      | 20   | 20    | 17   | 15    | 36   | 34    | 29    | 22    | 27    | 40    |
| Hooping Cough.....          | 52   | 83    | 36   | 32    | 63   | 56    | 14    | 16    | 28    | 13    |
| Hip, Disease of.....        | 3    | 1     | 2    | ..... | 1    | ..... | ..... | 1     | 2     | ..... |
| Inflammation of Bowels..... | 37   | 26    | 40   | 42    | 36   | 30    | 27    | 56    | 61    | 63    |
| “ “ Brain.....              | 68   | 35    | 23   | 40    | 50   | 44    | 63    | 67    | 66    | 101   |
| “ “ Lungs.....              | 50   | 31    | 33   | 59    | 64   | 46    | 52    | 57    | 45    | 90    |
| “ “ Stomach.....            | 9    | 9     | 18   | 19    | 14   | 14    | 19    | 13    | 16    | 20    |
| “ “ Throat.....             | 4    | 4     | 2    | 2     | 3    | 12    | 6     | 12    | 4     | 3     |
| Insanity.....               | 1    | ..... | 1    | 1     | 1    | ..... | 1     | ..... | 1     | ..... |
| Old Age.....                | 17   | 15    | 19   | 17    | 12   | 21    | 32    | 20    | 28    | 20    |
| Typhoid Fever.....          | 9    | 11    | 12   | 15    | 23   | 21    | 22    | 16    | 48    | 54    |
| Typhus Fever.....           | 38   | 15    | 25   | 15    | 16   | 13    | 13    | 28    | 7     | 51    |

## DEATHS of Adults, in each week, from 1853 to 1864.

| WEEKS.    | 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 |
|-----------|------|------|------|------|------|------|------|------|------|------|
| 1st.....  | 160  | 212  | 113  | 147  | 169  | 159  | 171  | 154  | 163  | 143  |
| 2d.....   | 195  | 142  | 111  | 140  | 151  | 149  | 189  | 190  | 151  | 182  |
| 3d.....   | 190  | 164  | 99   | 140  | 141  | 174  | 182  | 172  | 168  | 227  |
| 4th.....  | 162  | 153  | 130  | 153  | 144  | 190  | 166  | 164  | 166  | 194  |
| 5th.....  | 165  | 172  | 109  | 153  | 154  | 161  | 183  | 163  | 165  | 178  |
| 6th.....  | 156  | 150  | 115  | 149  | 139  | 178  | 159  | 145  | 163  | 160  |
| 7th.....  | 193  | 194  | 121  | 146  | 181  | 148  | 192  | 162  | 185  | 219  |
| 8th.....  | 173  | 188  | 127  | 159  | 151  | 142  | 206  | 157  | 196  | 165  |
| 9th.....  | 178  | 222  | 113  | 145  | 156  | 146  | 154  | 189  | 168  | 179  |
| 10th..... | 157  | 183  | 145  | 167  | 166  | 169  | 188  | 163  | 202  | 182  |
| 11th..... | 149  | 179  | 128  | 148  | 183  | 170  | 156  | 156  | 196  | 182  |
| 12th..... | 176  | 175  | 129  | 140  | 174  | 153  | 158  | 168  | 177  | 222  |
| 13th..... | 188  | 188  | 155  | 154  | 173  | 170  | 161  | 168  | 165  | 201  |
| 14th..... | 192  | 139  | 138  | 152  | 155  | 159  | 168  | 181  | 186  | 165  |
| 15th..... | 159  | 166  | 150  | 157  | 160  | 158  | 189  | 155  | 172  | 224  |
| 16th..... | 165  | 165  | 129  | 140  | 184  | 193  | 169  | 175  | 189  | 195  |
| 17th..... | 178  | 119  | 139  | 140  | 165  | 148  | 230  | 185  | 175  | 227  |
| 18th..... | 159  | 160  | 127  | 178  | 154  | 137  | 190  | 168  | 176  | 173  |
| 19th..... | 183  | 150  | 122  | 148  | 169  | 148  | 202  | 194  | 207  | 205  |
| 20th..... | 143  | 179  | 127  | 169  | 163  | 165  | 156  | 179  | 167  | 233  |
| 21st..... | 129  | 141  | 118  | 140  | 177  | 166  | 177  | 176  | 186  | 197  |
| 22d.....  | 179  | 139  | 91   | 176  | 198  | 145  | 141  | 172  | 149  | 170  |
| 23d.....  | 189  | 121  | 118  | 159  | 155  | 141  | 146  | 151  | 156  | 162  |
| 24th..... | 187  | 106  | 102  | 129  | 166  | 150  | 171  | 159  | 151  | 190  |
| 25th..... | 187  | 94   | 116  | 127  | 144  | 126  | 142  | 162  | 159  | 158  |
| 26th..... | 201  | 99   | 130  | 168  | 144  | 183  | 166  | 190  | 160  | 187  |
| 27th..... | 303  | 176  | 131  | 167  | 192  | 147  | 164  | 131  | 141  | 174  |
| 28th..... | 305  | 165  | 102  | 141  | 146  | 167  | 162  | 166  | 192  | 168  |
| 29th..... | 336  | 142  | 140  | 138  | 133  | 160  | 146  | 175  | 177  | 257  |
| 30th..... | 478  | 149  | 156  | 126  | 127  | 158  | 153  | 156  | 141  | 229  |
| 31st..... | 441  | 153  | 174  | 192  | 162  | 160  | 176  | 172  | 165  | 192  |
| 32d.....  | 416  | 113  | 140  | 151  | 150  | 184  | 222  | 229  | 170  | 386  |
| 33d.....  | 317  | 139  | 124  | 137  | 161  | 189  | 161  | 151  | 281  | 328  |
| 34th..... | 298  | 105  | 126  | 183  | 147  | 163  | 159  | 161  | 175  | 237  |
| 35th..... | 283  | 136  | 124  | 151  | 154  | 152  | 167  | 147  | 174  | 240  |
| 36th..... | 306  | 120  | 138  | 163  | 159  | 191  | 178  | 172  | 163  | 199  |
| 37th..... | 259  | 121  | 136  | 155  | 162  | 164  | 167  | 157  | 193  | 198  |
| 38th..... | 223  | 114  | 122  | 159  | 141  | 166  | 185  | 139  | 151  | 195  |
| 39th..... | 235  | 109  | 140  | 159  | 159  | 139  | 200  | 130  | 173  | 210  |
| 40th..... | 192  | 127  | 121  | 144  | 171  | 205  | 196  | 166  | 158  | 219  |
| 41st..... | 196  | 130  | 134  | 179  | 159  | 167  | 180  | 155  | 193  | 206  |
| 42d.....  | 182  | 126  | 146  | 143  | 149  | 172  | 189  | 158  | 148  | 191  |
| 43d.....  | 194  | 130  | 133  | 161  | 150  | 169  | 173  | 165  | 144  | 230  |
| 44th..... | 159  | 141  | 149  | 158  | 143  | 173  | 185  | 146  | 152  | 268  |
| 45th..... | 172  | 101  | 139  | 158  | 158  | 190  | 145  | 166  | 158  | 216  |
| 46th..... | 132  | 114  | 125  | 157  | 157  | 177  | 168  | 169  | 168  | 222  |
| 47th..... | 131  | 121  | 138  | 129  | 176  | 192  | 160  | 172  | 141  | 220  |
| 48th..... | 153  | 116  | 137  | 173  | 166  | 143  | 195  | 150  | 156  | 248  |
| 49th..... | 166  | 149  | 139  | 179  | 151  | 167  | 162  | 165  | 143  | 207  |
| 50th..... | 147  | 118  | 153  | 147  | 165  | 170  | 172  | 189  | 161  | 177  |
| 51st..... | 132  | 121  | 125  | 136  | 145  | 162  | 174  | 194  | 147  | 245  |
| 52d.....  | 169  | 114  | 129  | 147  | 183  | 127  | 157  | 157  | 169  | 209  |



## DEATHS of Children under 1 Year, in each Week, from 1853 to 1864.

| WEEKS. | 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 |
|--------|------|------|------|------|------|------|------|------|------|------|
| 1st    | 164  | 142  | 124  | 130  | 144  | 130  | 115  | 90   | 78   | 54   |
| 2d     | 149  | 134  | 96   | 133  | 124  | 130  | 113  | 102  | 90   | 91   |
| 3d     | 159  | 161  | 119  | 145  | 142  | 133  | 124  | 105  | 94   | 92   |
| 4th    | 157  | 152  | 114  | 159  | 139  | 119  | 111  | 104  | 84   | 100  |
| 5th    | 180  | 179  | 129  | 187  | 152  | 157  | 108  | 89   | 93   | 84   |
| 6th    | 181  | 176  | 137  | 147  | 144  | 152  | 117  | 98   | 114  | 100  |
| 7th    | 176  | 184  | 149  | 150  | 134  | 136  | 122  | 108  | 88   | 105  |
| 8th    | 168  | 171  | 142  | 147  | 160  | 130  | 131  | 99   | 78   | 109  |
| 9th    | 168  | 155  | 144  | 163  | 177  | 114  | 113  | 88   | 111  | 98   |
| 10th   | 154  | 158  | 129  | 138  | 168  | 144  | 121  | 94   | 124  | 106  |
| 11th   | 170  | 169  | 145  | 162  | 157  | 148  | 92   | 94   | 110  | 101  |
| 12th   | 200  | 133  | 111  | 140  | 140  | 136  | 94   | 110  | 110  | 86   |
| 13th   | 168  | 151  | 141  | 151  | 154  | 135  | 97   | 92   | 114  | 87   |
| 14th   | 151  | 165  | 145  | 132  | 171  | 137  | 103  | 116  | 112  | 113  |
| 15th   | 160  | 152  | 145  | 149  | 146  | 128  | 106  | 87   | 95   | 74   |
| 16th   | 157  | 141  | 124  | 144  | 157  | 117  | 88   | 102  | 89   | 85   |
| 17th   | 158  | 100  | 107  | 125  | 114  | 116  | 89   | 106  | 93   | 113  |
| 18th   | 132  | 161  | 113  | 133  | 121  | 107  | 76   | 90   | 95   | 108  |
| 19th   | 152  | 133  | 128  | 122  | 140  | 117  | 95   | 90   | 97   | 106  |
| 20th   | 141  | 131  | 121  | 138  | 119  | 95   | 90   | 67   | 97   | 87   |
| 21st   | 113  | 120  | 99   | 119  | 119  | 99   | 98   | 96   | 104  | 99   |
| 22d    | 117  | 128  | 104  | 153  | 187  | 128  | 79   | 88   | 81   | 91   |
| 23d    | 125  | 120  | 121  | 127  | 115  | 117  | 56   | 83   | 73   | 73   |
| 24th   | 128  | 117  | 115  | 126  | 156  | 132  | 61   | 95   | 75   | 80   |
| 25th   | 188  | 103  | 118  | 117  | 110  | 117  | 75   | 103  | 92   | 88   |
| 26th   | 166  | 133  | 136  | 118  | 104  | 146  | 91   | 112  | 88   | 100  |
| 27th   | 289  | 203  | 161  | 122  | 156  | 200  | 150  | 132  | 93   | 103  |
| 28th   | 295  | 219  | 180  | 156  | 174  | 276  | 172  | 226  | 195  | 140  |
| 29th   | 317  | 289  | 243  | 157  | 274  | 295  | 206  | 195  | 239  | 220  |
| 30th   | 372  | 345  | 288  | 200  | 317  | 292  | 230  | 225  | 219  | 254  |
| 31st   | 366  | 269  | 349  | 254  | 304  | 300  | 191  | 242  | 163  | 294  |
| 32d    | 321  | 274  | 298  | 254  | 332  | 274  | 225  | 275  | 206  | 306  |
| 33d    | 303  | 289  | 311  | 311  | 319  | 318  | 160  | 226  | 246  | 263  |
| 34th   | 275  | 278  | 256  | 319  | 273  | 215  | 196  | 168  | 187  | 200  |
| 35th   | 257  | 225  | 248  | 244  | 274  | 188  | 188  | 153  | 177  | 180  |
| 36th   | 198  | 195  | 159  | 286  | 248  | 147  | 154  | 145  | 161  | 149  |
| 37th   | 193  | 206  | 153  | 271  | 226  | 125  | 124  | 133  | 176  | 122  |
| 38th   | 170  | 149  | 140  | 241  | 145  | 121  | 144  | 100  | 111  | 113  |
| 39th   | 187  | 135  | 156  | 224  | 145  | 90   | 85   | 82   | 103  | 93   |
| 40th   | 150  | 122  | 148  | 154  | 127  | 141  | 98   | 107  | 88   | 98   |
| 41st   | 154  | 126  | 124  | 163  | 149  | 98   | 105  | 93   | 97   | 93   |
| 42d    | 124  | 110  | 117  | 151  | 105  | 82   | 108  | 116  | 88   | 83   |
| 43d    | 144  | 129  | 132  | 141  | 116  | 90   | 100  | 123  | 98   | 95   |
| 44th   | 116  | 115  | 128  | 124  | 117  | 84   | 91   | 110  | 76   | 74   |
| 45th   | 109  | 96   | 112  | 115  | ...  | 78   | 74   | 108  | 57   | 88   |
| 46th   | 107  | 96   | 139  | 126  | 117  | 76   | 76   | 100  | 70   | 86   |
| 47th   | 128  | 121  | 127  | 103  | 108  | 83   | 78   | 105  | 58   | 81   |
| 48th   | 103  | 106  | 126  | 121  | 117  | 88   | 94   | 72   | 84   | 95   |
| 49th   | 138  | 118  | 129  | 121  | 118  | 108  | 76   | 96   | 70   | 69   |
| 50th   | 116  | 109  | 133  | 102  | 115  | 106  | 93   | 97   | 65   | 90   |
| 51st   | 123  | 106  | 117  | 115  | 107  | 102  | 90   | 100  | 72   | 102  |
| 52d    | 137  | 112  | 138  | 116  | 118  | 92   | 72   | 75   | 73   | 94   |



DEATHS, by *Diarrhœa*, in each Week, from 1853 to 1864.

| WEEKS. | 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 |
|--------|------|------|------|------|------|------|------|------|------|------|
| 1st    | 10   | 13   | 4    | 3    | 8    | ...  | 3    | 2    | 4    | 6    |
| 2d     | 8    | 12   | 2    | 3    | 2    | 3    | 4    | 3    | 1    | 4    |
| 3d     | 14   | 14   | 6    | 2    | 9    | 2    | 3    | 5    | 4    | 5    |
| 4th    | 7    | 10   | 4    | 2    | 6    | 3    | 2    | 4    | 4    | 8    |
| 5th    | 8    | 10   | 3    | 2    | 5    | 2    | 3    | 2    | 5    | 7    |
| 6th    | 11   | 10   | 2    | 6    | 4    | 5    | 2    | 1    | 2    | 5    |
| 7th    | 16   | 10   | 4    | 6    | 6    | 2    | 6    | 2    | 1    | 3    |
| 8th    | 8    | 9    | 2    | 1    | 4    | 2    | 3    | 4    | ...  | 8    |
| 9th    | 3    | 8    | 1    | 6    | 4    | 4    | 7    | 2    | 3    | 2    |
| 10th   | 6    | 6    | 4    | 1    | 4    | 5    | 2    | ...  | 3    | 6    |
| 11th   | 5    | 14   | 4    | 2    | 3    | 5    | 3    | 2    | 5    | 3    |
| 12th   | 6    | 10   | 4    | 3    | 3    | 1    | ...  | 5    | ...  | 3    |
| 13th   | 5    | 3    | 6    | 1    | 1    | 2    | 2    | ...  | 6    | 4    |
| 14th   | 9    | 4    | ...  | 4    | 4    | 4    | 1    | 1    | 7    | 5    |
| 15th   | 8    | 5    | 2    | 3    | 6    | 6    | 2    | 3    | 4    | 8    |
| 16th   | 10   | 8    | 3    | 3    | 6    | 2    | 3    | 5    | 3    | 3    |
| 17th   | 10   | 3    | 3    | 1    | 3    | 4    | 6    | 6    | 2    | 6    |
| 18th   | 9    | 8    | 2    | 6    | 8    | 6    | ...  | 1    | 2    | 5    |
| 19th   | 12   | 9    | 4    | 4    | 4    | 5    | ...  | 3    | 1    | 4    |
| 20th   | 11   | 8    | 3    | 3    | 5    | 1    | 3    | 4    | 1    | 7    |
| 21st   | 5    | 3    | 2    | 3    | 4    | 1    | 4    | 7    | 6    | 12   |
| 22d    | 7    | 5    | 3    | 2    | 4    | 1    | ...  | 5    | ...  | 7    |
| 23d    | 11   | 6    | 6    | 4    | 4    | 4    | 4    | 7    | 6    | 4    |
| 24th   | 6    | 7    | 1    | 2    | 6    | 5    | 3    | 8    | 4    | 7    |
| 25th   | 11   | 7    | 7    | 4    | 3    | 10   | 2    | 4    | 20   | 9    |
| 26th   | 23   | 8    | 8    | 4    | 9    | 8    | 3    | 6    | 3    | 6    |
| 27th   | 34   | 10   | 16   | 5    | 14   | 12   | 7    | 6    | 14   | 10   |
| 28th   | 41   | 23   | 14   | 5    | 9    | 25   | 17   | 26   | 15   | 17   |
| 29th   | 47   | 38   | 30   | 6    | 35   | 35   | 20   | 28   | 21   | 37   |
| 30th   | 75   | 50   | 27   | 21   | 29   | 34   | 17   | 22   | 20   | 28   |
| 31st   | 70   | 48   | 41   | 34   | 44   | ...  | 25   | 19   | 11   | 37   |
| 32d    | 65   | 46   | 29   | 37   | 43   | 29   | 19   | 34   | 30   | 66   |
| 33d    | 44   | 62   | 29   | 39   | 42   | 43   | 19   | 39   | 20   | 50   |
| 34th   | 55   | 48   | 35   | 37   | 34   | 42   | 18   | 22   | 26   | 37   |
| 35th   | 69   | 46   | 39   | 29   | 31   | 31   | 27   | 12   | 34   | 37   |
| 36th   | 51   | 41   | 36   | 36   | 24   | 21   | 13   | 20   | 27   | 34   |
| 37th   | 41   | 31   | 19   | 34   | 27   | 16   | 20   | 21   | 20   | 37   |
| 38th   | 27   | 29   | 19   | 27   | 19   | 21   | 16   | 22   | 15   | 25   |
| 39th   | 35   | 21   | 15   | 22   | 19   | 17   | 17   | 12   | 20   | 26   |
| 40th   | 31   | 18   | 16   | 24   | 19   | 6    | 11   | 8    | 9    | 12   |
| 41st   | 30   | 14   | 7    | 18   | 11   | 6    | 15   | 6    | 16   | 13   |
| 42d    | 28   | 11   | 6    | 15   | 14   | 5    | 15   | 7    | 15   | 19   |
| 43d    | 25   | 15   | 11   | 15   | 4    | 9    | 6    | 13   | 10   | 19   |
| 44th   | 20   | 14   | 8    | 9    | 7    | 2    | 6    | 12   | 7    | 17   |
| 45th   | 11   | 4    | 5    | 3    | ...  | 1    | 6    | 12   | 5    | 6    |
| 46th   | 10   | 4    | 4    | 8    | ...  | 4    | 2    | 8    | 6    | 9    |
| 47th   | 9    | 5    | 5    | 10   | 1    | 2    | 4    | ...  | 3    | 7    |
| 48th   | 14   | 1    | 3    | 5    | 6    | 1    | 7    | 2    | 8    | 8    |
| 49th   | 10   | 4    | 2    | 6    | 5    | 2    | 3    | 4    | 5    | 9    |
| 50th   | 7    | 5    | ...  | 3    | 1    | ...  | 3    | 1    | 7    | 7    |
| 51st   | 8    | 1    | 2    | 5    | 1    | ...  | 1    | 6    | 4    | 11   |
| 52d    | 11   | 1    | 4    | 4    | 4    | 1    | 9    | 4    | 2    | 7    |

## DEATHS by Dysentery, in each Week, from 1853 to 1864.

| WEEKS. | 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 |
|--------|------|------|------|------|------|------|------|------|------|------|
| 1st    | 6    | 5    | 3    | 6    | 6    | ...  | 2    | ...  | ...  | ...  |
| 2d     | 2    | 6    | 2    | 2    | 4    | 1    | 2    | 1    | ...  | 6    |
| 3d     | 9    | 4    | 2    | 5    | 3    | ...  | 4    | 4    | 1    | 4    |
| 4th    | 2    | 7    | 5    | 4    | 2    | 4    | ...  | ...  | 1    | 3    |
| 5th    | 7    | 10   | 4    | 1    | 1    | 3    | 1    | 2    | ...  | ...  |
| 6th    | 8    | 5    | 3    | 2    | 3    | 2    | 3    | 1    | 2    | 1    |
| 7th    | 4    | 10   | 3    | 5    | 5    | 1    | 1    | 1    | 4    | ...  |
| 8th    | 5    | 9    | 1    | 5    | 2    | 2    | ...  | 1    | 1    | 3    |
| 9th    | 4    | 7    | ...  | 5    | ...  | 1    | ...  | ...  | ...  | 1    |
| 10th   | 4    | 4    | 2    | ...  | 3    | 2    | 1    | 1    | 1    | ...  |
| 11th   | 7    | 7    | ...  | 11   | 3    | 2    | 2    | ...  | 1    | 1    |
| 12th   | 4    | 3    | 4    | 3    | 3    | 3    | 2    | ...  | 6    | 1    |
| 13th   | 6    | 5    | 1    | 4    | 1    | 1    | 1    | 1    | 2    | 1    |
| 14th   | 4    | 3    | 3    | 2    | 1    | 1    | 3    | 2    | ...  | 1    |
| 15th   | 3    | 5    | 4    | 1    | 6    | 6    | 1    | ...  | 2    | ...  |
| 16th   | 7    | 8    | 2    | 2    | ...  | 8    | 1    | 2    | ...  | 1    |
| 17th   | 3    | 2    | 4    | 2    | 2    | 2    | 1    | 3    | 2    | 2    |
| 18th   | 6    | 11   | 2    | 2    | 4    | 1    | 1    | ...  | 1    | ...  |
| 19th   | 2    | 5    | 1    | 2    | 3    | 5    | 1    | 3    | 3    | 1    |
| 20th   | 7    | 6    | 1    | 2    | 2    | 4    | 1    | ...  | 1    | 2    |
| 21st   | 9    | 5    | 3    | 2    | 4    | 1    | 1    | ...  | 1    | 1    |
| 22d    | 16   | 6    | 4    | ...  | 2    | 1    | ...  | 1    | ...  | 3    |
| 23d    | 7    | 10   | 2    | 3    | 4    | 1    | ...  | 2    | 5    | 5    |
| 24th   | 2    | 3    | 5    | 4    | 3    | 5    | 1    | 1    | 3    | 3    |
| 25th   | 5    | 7    | 3    | 1    | 2    | 4    | ...  | 2    | ...  | 3    |
| 26th   | 10   | 7    | 6    | 4    | 2    | 7    | 3    | 3    | 2    | 5    |
| 27th   | 20   | 14   | 5    | 1    | 3    | ...  | 7    | 2    | 2    | 2    |
| 28th   | 29   | 12   | 8    | 2    | 8    | 13   | 6    | 12   | 4    | 5    |
| 29th   | 36   | 22   | 13   | 8    | 9    | 12   | 5    | 14   | 5    | 6    |
| 30th   | 42   | 25   | 21   | 10   | 11   | 11   | 9    | 7    | 3    | 11   |
| 31st   | 65   | 22   | 28   | 11   | 17   | 10   | 9    | 13   | 3    | 16   |
| 32d    | 44   | 36   | 22   | 14   | 29   | 20   | 13   | 13   | 8    | 20   |
| 33d    | 33   | 34   | 27   | 18   | 20   | 8    | 11   | 16   | 15   | 22   |
| 34th   | 44   | 30   | 30   | 13   | 27   | 17   | 7    | 11   | 10   | 11   |
| 35th   | 43   | 35   | 24   | 29   | 23   | 11   | 5    | 12   | 6    | 16   |
| 36th   | 39   | 28   | 35   | 21   | 21   | 14   | 10   | 17   | 9    | 17   |
| 37th   | 34   | 25   | 23   | 28   | 8    | 6    | 7    | 12   | 10   | 6    |
| 38th   | 30   | 12   | 28   | 14   | 15   | 13   | 12   | 6    | 9    | 14   |
| 39th   | 30   | 20   | 18   | 22   | 19   | 9    | 6    | 10   | 9    | 11   |
| 40th   | 33   | 23   | 12   | 8    | 15   | 7    | 7    | 10   | 4    | 8    |
| 41st   | 21   | 20   | 8    | 11   | 10   | 6    | 8    | 6    | 3    | 10   |
| 42d    | 21   | 7    | 14   | 9    | 5    | 5    | 8    | 7    | ...  | 11   |
| 43d    | 20   | 13   | 15   | 7    | 6    | 5    | 5    | 3    | 7    | 9    |
| 44th   | 17   | 7    | 10   | 9    | 3    | 3    | 1    | 4    | 3    | 8    |
| 45th   | 12   | 3    | 4    | 9    | ...  | 3    | 4    | 4    | 7    | 4    |
| 46th   | 10   | ...  | 4    | 5    | 2    | 4    | 5    | 2    | 3    | 4    |
| 47th   | 8    | 4    | 4    | 7    | 2    | 3    | 4    | 1    | 4    | 3    |
| 48th   | 3    | 7    | 5    | 5    | 3    | ...  | 2    | ...  | 3    | 4    |
| 49th   | 20   | 6    | 8    | 3    | ...  | 2    | 2    | 1    | 7    | 3    |
| 50th   | 9    | 3    | 3    | 2    | 1    | ...  | 2    | 1    | 2    | 1    |
| 51st   | 4    | 3    | 4    | 3    | 2    | 5    | 2    | 2    | 4    | 1    |
| 52d    | 5    | 4    | 3    | 6    | 1    | 2    | 1    | 6    | 1    | ...  |

TABLE NO. I.

CAUSE AND NUMBER OF DEATHS REGISTERED IN NEW YORK IN EACH OF THE THIRTEEN YEARS—1851-1863.

| Diseases.                        | 1851 | 1852 | 1853 | 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Abcess (various).....            | 72   | 68   | 44   | 80   | 64   | 59   | 89   | 66   | 67   | 64   | 73   | 57   | 51   |
| Albuminaria (Bright's Dis.)..... |      |      | 40   | 73   | 79   | 48   | 134  | 117  | 139  | 147  | 163  | 195  | 255  |
| Amputation.....                  | 1    |      | 1    | 2    | 3    | 4    | 2    | 8    | 6    | 2    | 1    | 6    | 2    |
| Anemia.....                      |      |      |      |      | 9    | 9    | 21   | 17   | 22   | 8    |      |      |      |
| Aneurism.....                    | 17   | 22   | 13   | 7    | 7    | 6    | 7    | 8    | 8    | 14   | 10   | 11   | 7    |
| " of the Aorta.....              |      |      | 6    | 17   | 13   | 11   | 13   | 26   | 12   | 11   | 25   | 20   | 16   |
| " " Heart.....                   |      |      | 3    | 7    | 2    | 3    | 5    | 4    |      | 1    |      |      | 2    |
| Angina.....                      | 38   | 43   | 16   | 10   | 12   | 14   | 21   | 11   | 58   | 37   | 16   | 2    | 64   |
| " Pectoris.....                  |      |      | 1    | 4    |      |      | 5    | 3    |      | 5    | 5    | 41   |      |
| Apoplexy.....                    | 657  | 653  | 253  | 285  | 201  | 194  | 211  | 134  | 309  | 299  | 194  | 304  | 383  |
| Asphyxia.....                    | 26   | 17   | 20   | 42   | 15   | 3    | 4    | 28   | 82   | 45   | 77   | 55   | 76   |
| Asthma.....                      | 41   | 50   | 37   | 54   | 52   | 35   | 32   | 29   | 48   | 51   | 33   | 27   | 41   |
| Bleeding.....                    | 5    | 50   | 30   | 21   | 25   | 19   | 18   | 22   | 63   | 40   | 45   | 30   | 56   |
| " from the Bowels.....           | 2    |      | 12   | 10   | 14   | 14   | 12   | 4    | 13   | 7    | 13   | 9    | 7    |
| " " Liver.....                   |      |      |      |      | 3    |      | 1    |      |      |      | 2    | 1    | 1    |
| " " Lungs.....                   | 49   | 35   | 56   | 70   | 65   | 50   | 51   | 61   | 53   | 35   | 57   | 59   | 63   |
| " " Umbilicus.....               |      |      |      | 9    | 11   | 16   | 6    | 19   | 5    | 8    | 10   | 9    | 14   |
| " " Stomach.....                 | 5    | 12   | 13   | 13   | 12   | 12   | 8    | 9    | 7    | 4    | 1    | 5    |      |
| " " Womb.....                    | 11   | 10   | 13   | 33   | 27   | 35   | 27   | 30   | 19   | 24   | 15   | 7    | 22   |
| Bowels, Disease of.....          |      |      |      | 32   | 43   | 25   | 13   | 13   | 5    |      |      |      |      |
| Brain.....                       |      |      |      | 26   | 30   | 18   | 31   | 45   | 30   |      |      |      | 665  |
| Bronchitis.....                  | 254  | 230  | 231  | 290  | 168  | 193  | 360  | 343  | 310  | 336  | 424  | 320  | 406  |
| Burned or Scalded.....           | 98   | 87   | 93   | 94   | 84   | 119  | 108  | 112  | 135  | 154  | 154  | 127  | 132  |
| Cancer.....                      | 90   | 91   | 77   | 107  | 147  | 154  | 187  | 189  | 198  | 180  | 173  | 160  | 207  |
| Carbuncles.....                  | 4    |      | 6    | 9    | 2    | 5    | 5    |      | 6    | 3    | 3    | 14   | 4    |
| Casualties.....                  | 179  | 173  | 216  | 191  | 71   | 144  | 138  | 130  | 266  | 298  | 324  | 254  | 355  |
| Caries.....                      | 6    | 2    |      |      |      |      | 17   |      |      |      |      |      | 3    |
| Catarrh.....                     | 11   |      | 4    | 19   | 2    | 10   |      | 25   | 23   | 9    | 10   | 16   | 11   |
| Chlorosis.....                   |      |      |      | 4    | 2    | 2    | 1    | 3    |      | 2    | 3    | 1    | 4    |
| Cholera.....                     |      | 374  | 20   | 2509 | 19   | 8    | 11   | 5    | 9    | 17   | 12   | 9    | 9    |
| " Infantum.....                  | 721  | 915  | 522  | 1525 | 1135 | 1381 | 1308 | 1579 | 1364 | 1669 | 1207 | 1280 | 1525 |
| " Morbus.....                    | 102  | 238  | 51   | 301  | 39   | 50   | 42   | 51   | 62   | 79   | 73   | 84   | 112  |
| Chorea.....                      |      | 1    | 1    |      | 5    | 3    | 3    |      | 1    | 4    | 2    | 1    | 4    |
| Cirrhosis of the Liver.....      |      | 22   | 7    | 29   | 27   | 30   | 53   | 59   | 44   | 46   | 69   | 71   |      |
| Colica Pictonum.....             | 51   | 48   | 27   | 24   | 22   | 25   | 16   | 17   | 14   | 6    | 2    | 2    | 1    |
| Compression of the Brain.....    |      |      |      | 15   | 36   | 10   | 28   | 17   | 14   | 22   | 21   | 19   |      |
| Concussion of the Brain.....     | 9    | 9    | 58   | 19   | 22   | 22   | 36   | 15   | 17   | 13   | 9    | 4    |      |
| Constipation of Bowels.....      | 6    | 11   | 7    | 19   | 11   | 11   | 8    | 17   | 9    |      |      |      |      |
| Congestion.....                  | 16   | 13   | 8    |      | 3    | 10   | 5    | 6    | 5    | 5    | 3    | 2    | 1    |
| " of the Bowels.....             |      |      |      | 10   | 18   | 11   | 11   | 8    | 8    |      | 2    | 7    |      |
| " " Brain.....                   |      |      | 406  | 581  | 469  | 374  | 463  | 476  | 489  | 495  | 464  | 427  |      |
| " " Heart.....                   |      |      |      |      | 1    | 2    | 2    | 1    | 1    |      |      |      |      |
| " " Kidneys.....                 |      |      |      | 1    |      | 1    | 3    | 3    | 2    |      | 1    | 3    |      |
| " " Liver.....                   | 3    |      | 1    | 6    | 11   | 13   | 11   | 12   | 9    | 7    | 12   | 19   |      |
| " " Lungs.....                   | 185  | 256  | 244  | 242  | 304  | 241  | 307  | 302  | 217  | 283  | 369  | 279  |      |
| Consumption.....                 | 2374 | 2487 | 2068 | 3032 | 2655 | 2478 | 2814 | 3046 | 3239 | 3186 | 3025 | 3170 | 3485 |
| Convulsions.....                 | 1702 | 1680 | 1374 | 2183 | 1895 | 1472 | 1589 | 1799 | 1816 | 1650 | 1480 | 1496 | 1752 |
| " Puorperal.....                 |      |      |      | 23   | 27   | 38   | 34   | 35   | 10   | 9    | 4    |      | 17   |
| Croup.....                       | 462  | 595  | 502  | 637  | 639  | 550  | 560  | 478  | 622  | 594  | 460  | 685  | 908  |
| Cynosis.....                     | 39   | 31   | 39   | 55   | 47   | 53   | 41   | 46   | 56   | 49   | 56   | 37   | 41   |
| Debility.....                    | 429  | 468  | 322  | 374  | 377  | 388  | 444  | 468  | 425  | 522  | 443  | 628  | 539  |
| Delirium Tremens.....            | 118  | 118  | 112  | 119  | 86   | 74   | 93   | 99   | 82   | 139  | 97   | 89   | 104  |
| Diabetes.....                    | 6    | 2    | 6    | 6    | 11   | 11   | 8    | 15   | 7    | 4    | 7    | 9    | 9    |
| Diarrhoea.....                   | 743  | 567  | 420  | 1108 | 781  | 494  | 550  | 598  | 502  | 420  | 456  | 473  | 739  |
| Diphtheria.....                  |      |      |      |      |      |      | 2    | 5    | 53   | 422  | 453  | 594  | 981  |
| Dropsy.....                      | 350  | 382  | 234  | 283  | 253  | 223  | 248  | 239  | 214  | 322  | 347  | 317  | 355  |
| " in the Chest.....              | 69   | 68   | 66   | 84   | 64   | 51   | 80   | 61   | 60   | 62   | 49   | 53   | 47   |
| " " Head.....                    | 791  | 882  | 686  | 1080 | 947  | 843  | 935  | 982  | 907  | 792  | 825  | 769  | 811  |
| " " Heart.....                   | 3    | 3    |      | 33   | 27   | 23   | 11   | 13   | 14   | 11   | 14   | 20   | 35   |
| " " Ovaries.....                 |      |      |      | 13   | 5    | 7    | 2    | 3    | 3    |      | 4    | 4    | 2    |
| Drowned.....                     | 162  | 169  | 165  | 183  | 186  | 141  | 164  | 161  | 175  | 185  | 204  | 182  | 260  |
| Dysentery.....                   | 1193 | 774  | 498  | 859  | 568  | 427  | 321  | 344  | 258  | 198  | 233  | 182  | 286  |
| Dyspepsia.....                   | 4    | 8    | 4    | 9    | 6    | 2    | 6    | 5    | 9    | 8    | 7    | 7    | 6    |
| Enlargement of Heart.....        |      |      | 48   | 64   | 62   | 43   | 76   | 53   | 14   | 36   | 47   | 62   | 60   |
| " " Liver.....                   |      |      | 5    | 8    | 11   | 11   | 12   | 7    | 4    | 6    | 7    | 13   | 10   |
| " " Prost. Gland.....            |      |      |      | 3    | 2    | 4    |      | 2    |      | 1    |      | 1    | 1    |
| " " Spleen.....                  |      |      |      |      | 1    |      | 2    | 1    |      | 1    | 4    |      |      |
| Epilepsy.....                    | 48   | 47   | 29   | 49   | 42   | 46   | 49   | 53   | 57   | 69   | 73   | 49   | 55   |
| Eruption.....                    |      | 3    | 13   | 22   | 11   | 12   | 12   | 12   | 1    | 1    | 2    |      |      |

TABLE NO. I.—(Continued.)

| Diseases.                          | 1851 | 1852 | 1853 | 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 |
|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Erysipelas.....                    | 205  | 156  | 114  | 147  | 140  | 114  | 139  | 156  | 141  | 107  | 130  | 131  | 124  |
| Exposure.....                      | 11   | 9    | 2    | 9    | 8    | 14   | 12   | 3    | 6    | 8    | 9    | 6    | 9    |
| Fatty Heart.....                   |      |      |      | 7    | 2    | 2    | 2    | 9    | 4    | 6    | 8    | 12   | 33   |
| “ Kidneys.....                     |      |      | 1    | 4    | 2    |      |      | 4    | 4    | 4    | 1    | 2    | 2    |
| “ Liver.....                       |      |      | 2    | 3    | 1    | 2    | 6    | 10   | 18   | 17   | 21   | 19   | 23   |
| Fever.....                         | 147  | 172  | 74   | 50   |      | 56   | 37   | 18   | 38   |      | 6    | 24   |      |
| “ Bilious.....                     | 41   | 26   | 37   | 41   | 20   | 37   | 26   | 17   | 12   | 3    | 38   | 14   | 102  |
| “ Chagres and Panama.....          |      |      | 13   | 22   | 10   | 4    | 4    | 2    | 2    |      | 1    | 1    | 2    |
| “ Congestive.....                  | 36   | 22   | 18   | 23   | 17   | 23   | 8    | 22   | 6    | 16   | 5    | 13   | 1    |
| “ Gastric.....                     |      |      | 2    | 10   | 8    | 5    | 5    | 6    | 5    | 7    | 3    | 7    |      |
| “ Hectic.....                      | 4    | 10   | 12   | 14   | 7    | 8    | 8    | 15   | 9    | 8    | 5    | 8    |      |
| “ Intermittent.....                | 16   | 10   | 16   | 34   | 23   | 33   | 28   | 22   | 19   | 4    | 12   | 12   | 16   |
| “ Miliary.....                     | 4    |      |      | 4    | 3    | 1    | 1    | 4    | 3    | 1    |      |      | 5    |
| “ Nervous.....                     | 31   | 51   | 29   | 53   | 33   | 25   | 14   | 35   | 12   | 20   | 13   | 13   | 5    |
| “ Puerperal.....                   | 165  | 155  | 98   | 141  | 131  | 130  | 111  | 173  | 168  | 154  | 151  | 115  | 53   |
| “ Remittent.....                   | 112  | 79   | 54   | 72   | 73   | 102  | 76   | 70   | 62   | 45   | 33   | 30   | 26   |
| “ Scarlet.....                     | 627  | 613  | 392  | 517  | 1052 | 1283 | 1325 | 668  | 840  | 1927 | 1278 | 928  | 903  |
| “ Ship.....                        |      |      | 2    | 7    | 3    | 4    |      |      | 5    | 3    |      |      |      |
| “ Typhoid.....                     | 125  | 96   | 101  | 136  | 139  | 133  | 141  | 176  | 206  | 212  | 232  | 404  | 531  |
| “ Typhus.....                      | 977  | 662  | 313  | 383  | 436  | 227  | 171  | 128  | 169  | 198  | 191  | 136  | 420  |
| “ Yellow.....                      |      | 1    | 2    | 6    | 2    | 13   |      |      | 3    | 2    |      |      |      |
| Fistula in Ano.....                | 1    | 1    | 1    | 6    | 1    | 1    | 1    | 2    | 2    | 3    |      | 2    | 3    |
| Fracture.....                      | 6    | 8    | 4    | 4    | 2    | 6    | 6    | 6    | 4    | 2    |      |      |      |
| “ Skull.....                       | 27   | 29   | 7    | 89   | 64   | 26   | 38   | 35   | 14   | 19   | 7    | 11   | 12   |
| “ Leg.....                         | 7    | 8    | 2    | 10   |      | 10   | 11   | 9    | 2    | 2    |      | 3    | 14   |
| “ Thigh.....                       | 1    | 2    |      | 1    | 11   | 6    | 4    | 4    | 2    |      |      | 8    | 2    |
| “ Spine.....                       | 4    | 2    |      | 11   | 15   | 13   | 2    | 3    |      | 1    | 2    | 2    | 1    |
| Gout.....                          | 4    | 1    | 2    | 3    |      | 2    | 1    | 3    | 3    | 2    | 3    | 3    | 3    |
| Gravel.....                        | 3    |      |      | 3    | 2    | 3    | 1    | 1    |      |      |      | 1    | 1    |
| Hanged.....                        | 6    | 1    | 4    | 1    |      |      | 1    | 1    |      | 2    |      |      |      |
| Heart, Disease of.....             | 273  | 276  | 182  | 246  | 247  | 243  | 232  | 306  | 435  | 375  | 299  | 281  | 378  |
| “ “ Rheumatic.....                 |      |      |      |      | 10   | 13   | 24   | 28   |      | 6    |      |      |      |
| “ “ Valvular.....                  |      |      |      |      | 19   | 24   | 33   | 40   | 21   | 23   | 15   | 8    |      |
| “ Ossification of.....             |      |      |      |      | 8    | 4    | 4    |      |      | 1    | 1    | 2    | 5    |
| Heat, Effects of.....              |      |      |      | 24   | 16   | 7    |      | 9    | 1    |      |      |      | 86   |
| Hip, Disease of.....               | 1    | 7    | 17   | 16   | 13   | 13   | 19   | 10   | 4    | 3    | 4    | 8    | 6    |
| Hooping Cough.....                 | 114  | 187  | 113  | 340  | 377  | 248  | 270  | 347  | 353  | 217  | 160  | 255  | 127  |
| Hydrophobia.....                   | 4    | 1    | 1    |      | 4    | 3    | 2    |      | 2    |      | 5    | 1    | 3    |
| Hysteria.....                      |      |      | 1    | 6    | 4    | 4    | 2    |      |      | 2    |      | 1    | 1    |
| Inflammation.....                  | 35   | 13   | 11   | 15   | 8    | 4    | 24   | 12   | 4    |      | 4    | 4    | 1    |
| “ of Bladder.....                  | 10   | 15   | 8    | 14   | 4    | 8    | 14   | 14   | 27   | 28   | 33   | 46   | 39   |
| “ “ Bowels.....                    | 537  | 432  | 309  | 367  | 351  | 332  | 350  | 332  | 335  | 536  | 427  | 528  | 540  |
| “ “ Brain.....                     | 418  | 442  | 354  | 450  | 299  | 278  | 418  | 504  | 468  | 533  | 601  | 512  | 683  |
| “ “ Chest.....                     | 52   | 20   | 14   | 14   | 13   | 13   | 6    | 5    | 16   | 27   | 5    | 3    |      |
| “ “ Ear.....                       |      |      |      | 4    | 2    | 2    |      | 3    |      | 2    | 2    |      |      |
| “ “ Eyes.....                      |      |      |      |      | 1    |      |      | 1    | 3    |      |      |      |      |
| “ “ Heart.....                     | 21   | 37   | 41   | 62   | 58   | 67   | 50   | 46   | 25   | 32   | 49   | 46   | 43   |
| “ “ Kidneys.....                   | 25   | 28   | 23   | 14   | 17   | 15   | 13   | 9    | 33   | 44   | 29   | 44   |      |
| “ “ Liver.....                     | 110  | 120  | 86   | 70   | 70   | 49   | 56   | 47   | 55   | 94   | 82   | 88   |      |
| “ “ Lungs.....                     | 1263 | 1062 | 857  | 1137 | 1123 | 856  | 1093 | 1218 | 1167 | 1299 | 1252 | 1100 | 1713 |
| “ “ Spine.....                     | 3    |      | 1    | 7    | 10   | 2    | 2    | 7    | 3    | 9    | 2    | 2    |      |
| “ “ Stomach.....                   | 182  | 122  | 93   | 102  | 92   | 120  | 112  | 11   | 157  | 171  | 111  | 150  | 152  |
| “ “ Throat.....                    | 53   | 50   | 107  | 118  | 64   | 50   | 71   | 70   | 111  | 132  | 101  | 68   | 49   |
| “ “ Tonsils.....                   |      |      |      | 23   | 13   | 8    | 15   | 15   | 4    |      |      |      |      |
| “ “ Veins.....                     | 2    | 5    | 8    | 8    | 4    | 4    | 7    | 9    | 15   | 16   | 8    | 8    | 11   |
| “ “ Womb.....                      | 21   | 20   | 18   | 14   | 10   | 19   | 5    | 20   | 22   | 32   | 41   | 34   | 25   |
| Inanition.....                     | 77   | 36   | 33   | 72   | 5    | 2    |      |      | 50   |      |      |      |      |
| Influenza.....                     |      | 3    | 4    | 3    | 9    | 8    | 6    | 6    | 3    | 2    | 3    | 3    |      |
| Insanity.....                      | 4    | 12   | 9    | 15   | 12   | 10   | 17   | 18   | 6    | 10   | 7    | 4    |      |
| Intemperance.....                  | 48   | 66   | 36   | 68   | 21   | 116  | 124  | 129  | 118  | 131  | 84   | 12   | 117  |
| Intussusception of Intestines..... | 8    | 7    | 5    | 11   | 8    | 11   | 2    | 10   | 7    | 5    | 13   | 5    | 5    |
| Jaundice.....                      | 38   | 34   | 24   | 37   | 44   | 36   | 30   | 33   | 33   | 29   | 40   | 31   | 36   |
| Kidneys, Disease of.....           |      |      |      | 17   | 23   | 12   | 30   | 22   | 21   |      | 2    |      | 52   |
| Knee Joint, Disease of.....        |      |      |      | 1    | 2    |      | 1    | 2    | 1    | 1    | 1    | 1    | 2    |
| Liver, Disease of.....             |      |      |      | 39   | 46   | 58   | 40   | 35   | 32   |      |      |      | 214  |
| Lues, Venereal.....                | 39   | 29   | 2    | 48   | 45   | 49   | 50   | 63   | 58   | 53   | 54   | 60   | 68   |
| Lungs, Disease of.....             |      |      |      |      | 33   | 9    | 16   | 20   | 10   |      |      |      |      |
| Malformation.....                  | 44   | 57   | 41   | 92   | 87   | 32   | 37   | 14   | 23   | 8    | 29   | 11   | 16   |
| “ of the Head.....                 |      |      |      |      |      | 4    | 4    |      | 1    | 2    |      |      | 11   |
| “ “ Heart.....                     |      |      |      |      |      | 21   | 28   | 20   | 19   | 10   | 6    | 17   |      |
| “ “ Lungs.....                     |      |      |      |      |      | 8    | 10   | 13   | 1    | 2    |      | 1    |      |



TABLE NO. I.—(Continued.)

| Diseases.                  | 1851 | 1852 | 1853 | 1854 | 1855 | 1856 | 1857 | 1858 | 1859 | 1860 | 1861 | 1862 | 1863 |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Malformation of the Spine. |      |      |      |      |      | 11   | 6    | 13   |      | 4    | 1    |      |      |
| Marasmus.                  | 1691 | 1007 | 819  | 1711 | 1563 | 1447 | 1662 | 1626 | 1471 | 1512 | 1500 | 1308 | 1479 |
| Measles.                   | 320  | 246  | 113  | 362  | 383  | 330  | 322  | 392  | 261  | 197  | 376  | 128  | 215  |
| Mortification.             | 3    | 41   | 33   | 65   | 52   | 29   | 48   | 41   | 36   | 35   | 28   | 22   | 28   |
| Mumps.                     | 2    |      | 4    | 7    | 6    | 3    | 3    | 5    | 4    | 2    | 3    |      | 1    |
| Murdered, or Killed.       | 15   | 18   | 21   | 32   | 25   | 30   | 33   | 47   | 23   | 22   | 21   | 52   | 127  |
| Neuralgia.                 | 1    | 2    | 5    | 5    | 6    | 3    | 3    | 1    |      | 3    | 5    | 3    | 1    |
| Old Age.                   | 179  | 160  | 111  | 180  | 213  | 182  | 204  | 180  | 258  | 294  | 284  | 263  | 307  |
| Palsy.                     | 132  | 138  | 92   | 124  | 142  | 117  | 118  | 135  | 257  | 207  | 206  | 219  | 237  |
| Parturition, Difficult.    | 7    |      | 3    | 36   | 26   | 16   | 23   | 26   | 2    | 4    |      | 3    |      |
| Piles.                     | 1    |      | 1    |      |      |      |      | 5    |      |      |      |      |      |
| Pleurisy.                  | 42   | 33   | 38   | 72   | 64   | 47   | 53   | 61   | 51   | 44   | 47   | 57   | 67   |
| Poison.                    | 29   | 12   | 11   | 20   | 16   | 25   | 13   | 20   | 11   | 25   | 13   | 10   | 13   |
| Polypus.                   |      |      | 8    | 2    | 3    | 4    |      | 3    |      |      | 2    | 2    |      |
| Premature Birth.           | 220  | 225  | 251  | 435  | 374  | 387  | 459  | 397  | 374  | 247  | 315  | 271  | 264  |
| Quinsy.                    |      |      |      |      |      | 4    | 10   | 2    | 3    | 6    |      |      |      |
| Retention of Menses.       |      |      |      | 4    | 5    |      |      | 1    |      |      |      |      |      |
| “ “ Urine.                 |      |      |      | 10   | 5    | 2    | 3    |      | 8    | 1    | 1    |      |      |
| Rheumatism.                | 36   |      | 29   | 28   | 38   | 32   | 43   | 35   | 40   | 37   | 54   | 49   | 57   |
| Rupture.                   | 29   | 31   | 9    | 2    | 5    | 5    | 15   | 9    | 2    |      | 7    | 6    | 9    |
| “ of the Aorta.            |      |      |      |      | 1    | 3    | 4    | 2    | 1    | 4    | 2    | 3    | 4    |
| “ “ Bladder.               | 1    |      |      | 3    | 1    | 1    | 3    |      | 1    | 1    | 1    |      | 1    |
| “ “ Heart.                 | 2    | 2    |      |      | 1    | 3    |      | 1    | 2    | 3    | 5    | 2    | 6    |
| “ “ Intestines.            |      | 9    |      | 17   | 28   | 3    | 10   | 17   | 3    |      | 2    | 2    |      |
| “ “ Liver.                 |      |      |      | 1    | 3    | 3    | 3    | 2    | 1    |      | 2    |      |      |
| “ “ Lungs.                 |      |      |      |      | 2    | 1    | 1    | 6    | 1    |      |      |      |      |
| “ “ Navel.                 |      |      |      |      |      | 1    | 2    |      |      |      |      | 1    |      |
| “ “ Spleen.                |      |      |      |      | 1    |      |      |      |      |      |      |      |      |
| “ “ Urethra.               |      |      |      |      |      |      | 2    |      | 1    |      | 1    |      | 1    |
| “ “ Womb.                  | 7    | 16   | 1    | 8    | 6    | 10   | 8    | 6    | 7    | 12   | 8    | 5    | 6    |
| Scirrhus.                  | 6    | 3    | 21   | 20   | 8    |      | 6    | 3    | 16   | 16   |      | 3    |      |
| Scrofula.                  | 101  | 100  | 117  | 182  | 129  | 116  | 117  | 181  | 91   | 98   | 85   | 69   | 65   |
| Scurvy.                    | 2    |      |      | 32   | 25   | 19   | 20   | 28   | 4    | 2    | 7    | 5    | 5    |
| Small pox.                 | 562  | 497  | 501  | 611  | 101  | 388  | 423  | 492  | 60   | 274  | 599  | 2    | 73   |
| Softening of the Bones.    |      |      |      | 1    |      | 2    | 2    | 6    | 3    | 1    | 5    | 8    | 2    |
| “ “ Brain.                 |      |      | 19   | 29   | 30   | 31   | 39   | 43   | 43   | 40   | 23   | 40   | 32   |
| “ “ Stomach.               |      |      | 14   | 26   | 21   | 10   | 15   | 16   |      |      |      |      | 1    |
| Spinal Disease.            | 27   | 30   | 15   | 22   | 13   | 13   | 18   | 14   | 18   | 13   | 14   | 26   | 17   |
| Sprue.                     | 78   | 33   | 43   | 90   | 66   | 49   | 36   | 56   | 21   | 15   | 25   | 27   | 14   |
| Stone.                     | 2    |      |      |      | 2    | 2    | 3    |      | 1    |      |      |      | 1    |
| “ in the Gall Bladder.     |      |      |      |      |      |      |      |      | 2    | 2    |      |      |      |
| Strangulation.             | 4    | 2    | 3    |      |      | 2    | 2    | 2    | 2    | 7    | 12   | 4    | 3    |
| Stricture.                 |      |      |      |      | 7    | 3    | 6    | 3    | 5    | 2    |      | 2    | 3    |
| Suffocation.               | 61   | 24   | 27   | 6    | 10   | 15   | 19   | 25   | 28   | 66   | 57   | 55   | 41   |
| Suicide.                   | 34   | 37   | 50   | 59   | 68   | 62   | 72   | 75   | 56   | 62   | 44   | 43   | 49   |
| Stomach, Disease of.       | 3    |      |      | 15   | 5    | 8    | 6    | 4    |      |      |      |      |      |
| Sun-stroke.                | 31   | 15   | 211  |      | 34   | 27   | 14   | 34   | 5    | 12   | 15   | 44   | 133  |
| Suppression of Menses.     | 1    |      |      |      |      | 4    | 1    | 2    |      |      | 1    |      |      |
| “ “ Urine.                 |      |      | 2    |      | 1    | 4    | 4    | 4    | 4    | 5    | 4    | 1    | 1    |
| Teething.                  | 151  | 177  | 117  | 148  | 129  | 360  | 327  | 143  | 290  | 122  | 140  | 72   | 90   |
| Tetanus.                   | 29   | 24   | 13   | 49   | 37   | 85   | 36   | 21   | 37   | 27   | 37   | 33   | 35   |
| Tumor.                     | 13   | 19   | 10   | 19   | 17   | 10   | 15   | 22   | 34   | 56   | 22   | 29   | 23   |
| Tape Worm.                 |      | 1    |      |      |      |      |      |      |      |      |      |      |      |
| Ulceration.                | 13   | 11   | 19   | 31   | 25   | 17   | 22   | 15   | 6    | 6    | 5    | 2    |      |
| “ of the Throat.           | 5    | 20   | 5    | 12   | 10   | 7    | 7    | 7    | 19   |      | 17   | 7    | 25   |
| “ “ Intestines.            | 1    | 19   | 13   | 32   | 48   | 38   | 25   | 23   | 15   | 18   | 15   | 13   | 20   |
| “ “ Stomach.               | 3    | 3    |      | 6    | 5    | 8    | 10   | 14   | 6    | 21   | 6    | 8    | 7    |
| “ “ Womb.                  | 21   | 2    |      | 4    | 2    | 4    |      | 1    | 2    |      |      |      | 1    |
| Unknown.                   | 1    | 166  | 90   | 55   | 37   | 73   | 38   | 48   | 20   | 40   | 63   | 45   | 43   |
| Varioloid.                 | 24   | 19   | 18   | 13   | 6    | 8    | 11   | 13   | 2    | 15   | 17   | 1    | 5    |
| White Swelling.            |      |      |      | 7    | 2    |      |      |      |      |      |      |      |      |
| Womb, Disease of.          |      |      |      | 2    | 5    | 4    | 4    |      |      |      |      |      |      |
| Worms.                     | 4    | 11   | 4    | 14   | 7    | 16   | 10   | 10   | 2    | 4    | 2    | 1    | 1    |
| Wounds.                    |      |      | 4    |      |      |      | 2    |      |      |      | 1    | 2    | 1    |

TYPHUS FEVER IN ENGLAND AND LONDON, ALSO NEW YORK, FROM  
1844 TO 1864.

| YEAR.     | ENGLAND. | LONDON. | NEW YORK |
|-----------|----------|---------|----------|
| 1845..... | 13,460   | 1,333   | 175      |
| 1846..... | 19,701   | 1,851   | 262      |
| 1847..... | 33,604   | 3,232   | 948      |
| 1848..... | 40,102   | 3,614   | 720      |
| 1849..... | 27,610   | 2,515   | 415      |
| 1850..... | 15,374   | 1,967   | 396      |
| 1851..... | 17,930   | 2,404   | 977      |
| 1852..... | 18,641   | 2,209   | 662      |
| 1853..... | 18,554   | 2,701   | 313      |
| 1854..... | 18,893   | 2,715   | 383      |
| 1855..... | 16,470   | 2,374   | 436      |
| 1856..... | 16,182   | 2,674   | 227      |
| 1857..... | 19,016   | 2,203   | 171      |
| 1858..... | 17,883   | 1,902   | 126      |
| 1859..... | 15,877   | 1,796   | 169      |
| 1860..... | 13,012   | 1,392   | 198      |
| 1861..... | 17,960   | 1,754   | 191      |
| 1862..... | 17,101   | 1,641   | 136      |
| 1863..... | .....    | ....    | 420      |

By examining this table you will perceive that the mortality by this disease was very great in England, including London, and also in New York during 1847, 1848, 1849, in 1851-2 and 1853; and further, it will be seen that the mortality by it is much greater at all times in London than New York, in proportion to the population, it being as 3 is (in London) to 1 (in New York).

The following table shows that these Fevers are the common prevailing diseases of Sweden. They do not keep full pace with the population, yet a considerable portion of the annual mortality is by these maladies. It will be noticed, also, that they occur in the form of fearful epidemics at almost stated periods of from ten to fifteen years. This is an exceedingly valuable table, as it shows the statistics of this disease in this country for more than a century, a circumstance that is scarcely to be found in any country, and speaks well for the vigilance and enterprise of these people in that remote period.

*Population and Deaths by Typhus and Typhoid Fevers in Sweden, from 1749 to 1855.*

| YEAR. | Population<br>at the end of<br>the year. | From Typhus<br>and Typhoid<br>Fever. | YEAR. | Population<br>at the end of<br>the year. | From Typhus<br>and Typhoid<br>Fever. | YEAR. | Population<br>at the end of<br>the year. | From Typhus<br>and Typhoid<br>Fever. |
|-------|------------------------------------------|--------------------------------------|-------|------------------------------------------|--------------------------------------|-------|------------------------------------------|--------------------------------------|
| 1749  | .....                                    | 3,948                                | 1785  | 2,149,773                                | 6,785                                | 1821  | .....                                    | 5,853                                |
| 1750  | .....                                    | 3,581                                | 1786  | .....                                    | 6,989                                | 1822  | .....                                    | 5,141                                |
| 1751  | 1,785,727                                | 3,398                                | 1787  | .....                                    | 6,500                                | 1823  | 2,687,457                                | 4,166                                |
| 1752  | .....                                    | 2,857                                | 1788  | .....                                    | 5,858                                | 1824  | .....                                    | 3,903                                |
| 1753  | .....                                    | 3,126                                | 1789  | .....                                    | 14,226                               | 1825  | 2,771,252                                | 3,962                                |
| 1754  | 1,837,314                                | 3,505                                | 1790  | 2,158,232                                | 11,408                               | 1826  | 2,805,350                                | 5,294                                |
| 1755  | .....                                    | 3,609                                | 1791  | .....                                    | 8,269                                | 1827  | 2,828,568                                | 7,871                                |
| 1756  | .....                                    | 4,320                                | 1792  | .....                                    | 4,226                                | 1828  | 2,848,062                                | 9,847                                |
| 1757  | 1,870,372                                | 5,502                                | 1793  | .....                                    | 4,533                                | 1829  | 2,864,831                                | 9,264                                |
| 1758  | .....                                    | 5,566                                | 1794  | .....                                    | 4,476                                | 1830  | 2,888,082                                | 7,353                                |
| 1759  | .....                                    | 5,413                                | 1795  | 2,281,137                                | 5,010                                | 1831  | 2,901,061                                | 6,303                                |
| 1760  | 1,893,248                                | 5,339                                | 1796  | .....                                    | 3,853                                | 1832  | 2,922,845                                | 4,610                                |
| 1761  | .....                                    | 4,763                                | 1797  | .....                                    | 4,141                                | 1833  | 2,959,257                                | 3,560                                |
| 1762  | .....                                    | 6,022                                | 1798  | .....                                    | 4,737                                | 1834  | 2,983,144                                | 3,710                                |
| 1763  | 1,940,011                                | 8,342                                | 1799  | .....                                    | 4,928                                | 1835  | 3,025,439                                | 4,101                                |
| 1764  | .....                                    | 7,350                                | 1800  | 22,347,303                               | 5,872                                | 1836  | 3,061,533                                | 4,670                                |
| 1765  | .....                                    | 6,120                                | 1801  | .....                                    | 5,594                                | 1837  | 3,080,538                                | 4,340                                |
| 1766  | 1,981,600                                | 5,445                                | 1802  | .....                                    | 5,634                                | 1838  | 3,098,794                                | 14,700                               |
| 1767  | .....                                    | 5,132                                | 1803  | .....                                    | 6,265                                | 1839  | 3,115,169                                | 15,000                               |
| 1768  | .....                                    | 4,054                                | 1804  | .....                                    | 6,860                                | 1840  | 3,138,887                                | 5,640                                |
| 1769  | 2,015,127                                | 4,499                                | 1805  | 2,427,408                                | 6,023                                | 1841  | 3,173,349                                | 5,101                                |
| 1770  | .....                                    | 4,555                                | 1806  | .....                                    | 7,179                                | 1842  | 3,207,141                                | 5,610                                |
| 1771  | .....                                    | 5,983                                | 1807  | .....                                    | 8,065                                | 1843  | 3,237,180                                | 5,740                                |
| 1772  | 2,032,516                                | 12,846                               | 1808  | .....                                    | 12,527                               | 1844  | 3,275,661                                | 5,600                                |
| 1773  | .....                                    | 20,137                               | 1809  | .....                                    | 21,171                               | 1845  | 3,316,536                                | 6,310                                |
| 1774  | .....                                    | 4,947                                | 1810  | 2,377,851                                | 9,193                                | 1846  | 3,343,556                                | 5,400                                |
| 1775  | 2,020,847                                | 4,920                                | 1811  | .....                                    | 7,430                                | 1847  | 3,363,330                                | 4,100                                |
| 1776  | .....                                    | 5,358                                | 1812  | .....                                    | 8,058                                | 1848  | 3,399,341                                | 15,301                               |
| 1777  | .....                                    | 4,439                                | 1813  | .....                                    | 6,261                                | 1849  | 3,443,803                                | 16,540                               |
| 1778  | .....                                    | 4,837                                | 1814  | .....                                    | 5,555                                | 1850  | 3,482,541                                | 5,610                                |
| 1779  | .....                                    | 6,959                                | 1815  | 2,465,066                                | 5,325                                | 1851  | 3,516,839                                | 5,300                                |
| 1780  | 2,118,281                                | 3,394                                | 1816  | .....                                    | 4,590                                | 1852  | 3,541,399                                | 5,400                                |
| 1781  | .....                                    | 4,137                                | 1817  | .....                                    | 5,789                                | 1853  | 3,562,462                                | 5,200                                |
| 1782  | .....                                    | 5,046                                | 1818  | .....                                    | 6,359                                | 1854  | 3,606,987                                | 4,300                                |
| 1783  | .....                                    | 5,464                                | 1819  | .....                                    | 7,210                                | 1855  | 3,639,332                                | 8,201                                |
| 1784  | .....                                    | 6,494                                | 1820  | 2,584,690                                | 5,877                                |       |                                          |                                      |



## METEOROLOGY.

The temperature of the atmosphere during the year has been above the average for several years.

In the months of July and August, the mean average (seventy-five) was one degree above the average for the last ten years, and on several occasions the thermometer rose to ninety-four, and remained nearly at that point for sixteen hours together; in one instance it reached ninety-five degrees. This, with the unprecedented humidity of the atmosphere, and to this, more than all circumstances combined, as regards the condition of the weather, is due the increase of the mortality, for when the atmosphere is diluted with hydrogen to the extent it was in July and August, sweating only places a person in the precise condition he would be if in a hot bath—instead of the perspiration cooling him, as it does when the air is dry and warm, it tends to prostration. The average of saturation was about seventy degrees, the complete saturation being one hundred, that made it very trying to delicate constitutions and persons predisposed to disease, and also to wounded and disabled soldiers, not only in the hospitals, but in private houses.

Our whole community might, almost all intents, have been in a vapor-bath for sixteen hours or more, at one time, upon more than one occasion during the summer of 1863; any person who has ever experienced the effects of a bath of this character when they remained in it an undue time, needs no explanation as to its depressing influences.

That extremes in the temperature, &c., of the atmosphere influences health and produces death, is so well known that I deem it unnecessary to dwell upon the subject, but will present the variations in the mortality influenced thereby, for a certain number of weeks, in different years, in London and New York.

As to the rain-fall for the year, it has been excessive; the depth was fifty-one and a half inches, and the number of damp days in the last three years were as follows:

| YEAR.     | DAMP DAYS. |
|-----------|------------|
| 1861..... | 103        |
| 1862..... | 92         |
| 1863..... | 133        |

DEATHS occurring in each Week, in the city of London, for the years  
1860-61—for the first nineteen weeks of each year.

| WEEK.            | YEAR. |       | DIFFERENCE.  |
|------------------|-------|-------|--------------|
|                  | 1860. | 1861. |              |
| First.....       | 1281  | 1707  | Increase 426 |
| Second.....      | 1344  | 1707  | " 363        |
| Third.....       | 1297  | 1926  | " 629        |
| Fourth.....      | 1386  | 1783  | " 397        |
| Fifth .....      | 1389  | 1544  | " 155        |
| Sixth.....       | 1442  | 1459  | " 17         |
| Seventh....      | 1454  | 1328  | Decrease 126 |
| Eighth.....      | 1500  | 1318  | " 182        |
| Ninth.....       | 1442  | 1238  | " 204        |
| Tenth.....       | 1397  | 1279  | " 118        |
| Eleventh.....    | 1563  | 1226  | " 337        |
| Twelfth.....     | 1611  | 1214  | " 397        |
| Thirteenth.....  | 1708  | 1236  | " 472        |
| Fourteenth ..    | 1439  | 1220  | " 219        |
| Fifteenth....    | 1407  | 1209  | " 198        |
| Sixteenth.....   | 1284  | 1210  | " 74         |
| Seventeenth..... | 1268  | 1182  | " 86         |
| Eighteenth.....  | 1205  | 1261  | Increase 56  |
| Nineteenth....   | 1111  | 1241  | " 130        |

The increase of deaths in the above table, in 1861, were attributed to the intense coldness of the weather.

DEATHS in each Week, in New York, in 1862 and 1863, from the twenty-seventh to the forty-second.

| WEEK.                | YEAR. |       | DIFFERENCE. |
|----------------------|-------|-------|-------------|
|                      | 1862. | 1863. |             |
| Twenty-eighth. ....  | 553   | 467   | Decrease 86 |
| Twenty-ninth. ....   | 588   | 668   | Increase 80 |
| Thirtieth. ....      | 568   | 684   | " 116       |
| Thirty-first. ....   | 685   | 722   | " 37        |
| Thirty-second. ....  | 520   | 970   | " 450       |
| Thirty-third. ....   | 536   | 859   | " 323       |
| Thirty-fourth. ....  | 530   | 663   | " 133       |
| Thirty-fifth. ....   | 520   | 623   | " 103       |
| Thirty-sixth. ....   | 408   | 565   | " 147       |
| Thirty-seventh. .... | 410   | 487   | " 77        |
| Thirty-eighth. ....  | 499   | 467   | Decrease 32 |
| Thirty-ninth. ....   | 457   | 447   | " 10        |
| Fortieth. ....       | 370   | 448   | Increase 78 |
| Forty-first. ....    | 386   | 420   | " 34        |

The excess of the mortality in this table was produced by the unusual heat of the weather, and the unprecedented amount of moisture in the atmosphere.

#### EXTERNAL CAUSES.

Deaths under this head are those that result from accident, violence, &c. The number recorded was 2,103, an increase of 360, when compared with 1862. Could the correct number be ascertained, the difference in the two years would be vastly greater than it appears. For example, the excess of 1863 alone, from sun stroke (effects of heat included) and killed in the riot, exceed by 24 the total increase here presented. The causes of these discrepancies have already been alluded to elsewhere.

| YEAR.     | SUN-STROKE. | HEAT,<br>EFFECTS OF. | KILLED OR<br>MURDERED. | KILLED. | CASUALTIES,<br>VARIOUS. |
|-----------|-------------|----------------------|------------------------|---------|-------------------------|
| 1854..... | ..          | 24                   | 32                     | ....    | 191                     |
| 1855..... | 34          | 16                   | 25                     | ....    | 71                      |
| 1856..... | 27          | 7                    | 30                     | ....    | 144                     |
| 1857..... | 14          | ..                   | 63                     | ....    | 138                     |
| 1858..... | 34          | 9                    | 47                     | ...     | 130                     |
| 1859..... | 5           | 1                    | 28                     | ....    | 266                     |
| 1860..... | 12          | ..                   | 22                     | ....    | 298                     |
| 1861..... | 15          | ..                   | 21                     | ....    | 324                     |
| 1862..... | 44          | ..                   | 52                     | ....    | 254                     |
| 1863..... | 133         | 86                   | 127                    | ....    | 355                     |

DEATHS, by twelve classes of fatal diseases, in cities and in country districts in England.

|                                                 | CITIES    | COUNTIES. |
|-------------------------------------------------|-----------|-----------|
| Population.....                                 | 3,553,161 | 3,500,750 |
| Epidemic, endemic, and contagious diseases..... | 12,776    | 6,405     |
| <i>Sporadic Diseases.</i>                       |           |           |
| Of the nervous system .....                     | 7,705     | 3,607     |
| “ respiratory organs .....                      | 12,619    | 7,847     |
| “ organs of circulation .....                   | 590       | 309       |
| “ digestive organs .....                        | 3,476     | 1,832     |
| “ urinary organs .....                          | 219       | 161       |
| “ organs of generation .....                    | 460       | 265       |
| “ “ locomotion .....                            | 262       | 154       |
| “ “ integumentary system .....                  | 62        | 55        |
| Of uncertain seat .....                         | 4,396     | 3,730     |
| Age .....                                       | 2,924     | 3,102     |
| Violent deaths .....                            | 1,370     | 925       |
| Not specified.....                              | 1,104     | 1,657     |
| TOTAL.....                                      | 47,953    | 29,692    |



It will be seen by the foregoing table, that the concentration of the population in cities doubles the deaths from the first two classes of disease, the ratio of deaths having been as 1 to 2.11, and 1 to 2.13, and largely augments others.

Dr. Letheby says: "In all England the expectancy of a man's life at 20 is to 60 years; in the city it is only to 51.5. At the age of 45 the expectancy of life in England is to 68.3, but in the city it is to only 62; and at 65 years of age a man in the west of England might expect to live to 76, whereas, in the city he will reach to only 73. The mean lifetime of adult females in England is only about one year more than that of males, but in the city it is, at different periods of life, from 4 to 6 years greater, showing that the unwholesome influences operate most severely on the males; indeed, the conclusion from all this is, that the circumstances of a city life are peculiarly trying, for they increase the death-rate from a normal standard of about 17 in the 1,000 to nearly 23; they double the mortality of the infant population, and shorten the period of adult life from an average age of 60 to 51."

I have adopted this mode of presenting to your Honorable Body for consideration an abridged copy of the present health laws of the city of New York, and the total mortality for a number of years, in order that you should at all times have reliable reference before you.

I am, with great respect,

Yours, &c.,

F. I. A. BOOLE,

*City Inspector.*

Typhus fever has decreased rapidly for the last fifteen years. In 1851 the deaths were 977, while in 1858 there were but 126 deaths. Since that period it has been slowly on the increase, reaching, in 1863, 420. This is due, in a great measure, to the increase of emigration, for it is among this class that we find this disease most prevalent. It bears a great proportion to the number of emigrants in former years, as is seen by the following table:

| YEAR.      | TYPHUS FEVER. | NUMBER OF IMMIGRANTS<br>LANDED IN EACH YEAR. |
|------------|---------------|----------------------------------------------|
| 1847 ..... | 948           | 129,062                                      |
| 1848 ..... | 720           | 189,176                                      |
| 1849 ..... | 415           | 220,791                                      |
| 1850 ..... | 396           | 212,796                                      |
| 1851 ..... | 977           | 289,601                                      |
| 1852 ..... | 662           | 300,992                                      |
| 1853 ..... | 404           | 284,945                                      |
| 1854 ..... | 390           | 319,223                                      |
| 1855 ..... | 439           | 136,233                                      |
| 1856 ..... | 227           | 142,342                                      |
| 1857 ..... | 171           | 183,773                                      |
| 1858 ..... | 126           | 78,589                                       |
| 1859 ..... | 169           | 79,322                                       |
| 1860 ..... | 198           | 104,900                                      |
| 1861 ..... | 191           | 65,529                                       |
| 1862 ..... | 136           | 76,306                                       |
| 1863 ..... | 420           | 156,529                                      |

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